

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Access DB# 80890

68

80888

Requester's Full Name: Gwen Liang Examiner #: 79180 Date: 11-21-02  
 Art Unit: 2172 Phone Number: 305-3985 Serial Number: 09/65, 578  
 Mail Box and Bldg/Room Location: PK II 4B25 Results Format Preferred (circle) PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Method and Apparatus for Creating a Well-Formed Database System  
Using a Computer  
 Inventors (please provide full names): WEISSMAN, Craig D. ; WALSH, Greg V. ;  
WEGBREIT, Eliot L. ; JAIN, Ankur S.

Earliest Priority Filing Date: 7/26/1999

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Main Concept = A system to automatically create a database by accessing the definition of a schema.

Main Search = The creation of the database and all the tables are not created by a human programmer writing executable code by hand, but rather through a computer program utilizing the pre-stored database definition including: definitions of tables, columns, relationships, data manipulating rules.

Claim focus = Claim 21

11-22-02 A09:22 IN

\* Assignee = E. P. Phany, Inc. (Please mark "SA" for same Assignee).

## STAFF USE ONLY

STAFF USE ONLY		Type of Search	Vendors and cost where applicable
Searcher: <u>Groffrey St. Leger</u>	NA Sequence (#) _____	STN _____	
Searcher Phone #: <u>308-7800</u>	AA Sequence (#) _____	Dialog <input checked="" type="checkbox"/>	
Searcher Location: <u>4B30</u>	Structure (#) _____	Questel/Orbit _____	
Date Searcher Picked Up: <u>12/2/2</u>	Bibliographic <input checked="" type="checkbox"/>	Dr. Link _____	
Date Completed: <u>12/3/2</u>	Litigation _____	Lexis/Nexis _____	
Searcher Prep & Review Time: <u>2 hours</u>	Fulltext <input checked="" type="checkbox"/>	Sequence Systems _____	
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____	
Online Time: <u>4 hours</u>	Other _____	Other (specify) _____	


December 3, 2002

Dear Ms. Liang,

Attached please find the results of your search request for application #09/625,518. I searched Dialog's foreign patent files, technical databases, product announcement files and general files.

Please let me know if you have any questions.

Regards,

  
Geoffrey St. Leger  
4B30/308-7800

7/9/34 (Item from file: 275)  
DIALOG(R) File 275:Gale Group Computer DB(TM)  
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01261871 SUPPLIER NUMBER: 07079997 (THIS IS THE FULL TEXT)  
Index interface links CASE and IBM's DB2. (Index Technology Corp.) (computer-aided software engineering) (product announcement)

Feuche, Mike

MIS Week, v9, n43, p23(2)

Oct 24, 1988

DOCUMENT TYPE: product announcement ISSN: 0199-8838 LANGUAGE:

ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 872 LINE COUNT: 00073

1 ABSTRACT: Index Technology Corp is providing an interface between its computer-aided software engineering (CASE) tools and IBM's DB2 data based management system. The link between the company's popular Excelsator CASE tool and DB2 allows logical design data produced in the Index product to SQL-based physical design data used to implement DB2. The interface can create DB2 tables from definitions created in Excelsator. The product is designed to eliminate the manual effort now involved in transferring design and data requirements from one product to the other. A site licensing fee for the XL-Interface product begins at \$7,500.

2 TEXT:

Index Interface Links CASE and IBM's DB2 CAMBRIDGE, Mass.--The competitive pace of the computer-aided software engineering (CASE) marketplace picked up speed last week with an announcement of a link between Index Technology Corp.'s Excelsator systems analysis and design software and the DB2 relational database management system from International Business Machines Corp.

3 Excelsator, with more than 12,000 units sold worldwide, has the largest installed base of any CASE product.

4 The introduction of the new link -- called XL/Interface for DB2 -- was widely seen by observers as confirming a growing industrywide trend for CASE vendors to unveil tools that bridge the gap between application design and implementation functions.

5 "this is a major step forward for the CASE industry, as we tie together the future of two of the most significant products in the field of software development," said Chris Gretjak, Index Technology vice president of marketing and sales. DB2, which currently has over 2,200 installations worldwide, is IBM's leading relational database management system for mainframe software applications.

6 Jerrold M. Crochow, vice president of American Management Systems Inc., an Arlington, Va.-based consulting and software firm, said, "Having in one tool the ability to do the logical as well as the physical design of my databases, and to provide DB2 instructions for setting up these databases, is exactly the way to go."

7 The Index announcement followed by one week the introduction of another IBM-oriented integration product combining the new Teamwork for OS/2 front-end product from Cadre Technologies, Providence, R.I., and the widely used Telon code generator from Pansophic Systems Inc., Oak Brook, Ill. (see Oct. 17 MIS Week, page 32).

8 More Than an Interface

Commenting on the new offering, Gretjak said, "This is more than just an interface. It really is a product designed to help you build DB2 databases."

9 The XL/Interface for DB2, Gretjak noted, allows database administrators for the first time automatically to transform logical design data produced in Excelsator into physical design data -- specifically, into structured query language (SQL), which can be used to implement a DB2 database.

10 The link's DB2 utilities automatically create DB2 entities. For example, the link can automatically create DB2 tables from logical record definitions developed in Excelsator and then enable the database administrator to prototype views and table spaces.

11 The interface, Gretjak added, eliminates the need to manually re-key design and data requirements, thereby increasing productivity and reducing

design discrepancies and system errors. In addition, the link provides access to Excelerator's analysis and ad hoc reporting capabilities for improving the quality of database designs.

12 The link incorporates a version of the Excelerator XLDictionary customized to specifically describe and document entities for DB2 applications. It includes seven new entity types tailored for DB2, including column, table, view, index, table space, storage group and database. Changes to the dictionary are automatically tracked and the individuals who made them are identified.

13 Also included are reporting tools, not available in the DB2 catalogue, for verifying the completeness and accuracy of database designs. In addition to Excelerator's standard dictionary output and user-defined reports, the link generates cross-reference and content reports that ease the transition from logical to physical design.

14 XL/Interface, which is available immediately, runs on all IBM PCs and compatibles. The cost of a site licensing fee is \$7,500. A second interface, announced earlier this month, with Advanced Business Technology Corp.'s Project Workbench project management system will be incorporated in a new version of Excelerator to be announced and made available late this year or in early 1989. The new version includes such features as use of color throughout the product, expanded analytical capabilities, extensive dictionary browsing and other enhancements of functionality.

15 CSP Hook in Wings

According to Gretjak, the activity leading to the development of XL/Interface for DB2 was inspired by work done by an Excelerator user, Arco (Atlantic Richfield) in Dallas, to support moving of data from an IMS DB/DC database into Excelerator and then to generate DB2 tables, views, and other information for the DB2 catalogue.

16 The combination of Excelerator and DB2 still lacks a code generator to generate actual applications and provide complete coverage of the application life cycle. This capability will be provided in the future by IBM's Cross System Product (CSP), currently undergoing substantial redevelopment and enhancement.

17 Index, Gretjak noted, has already developed a version of Excelerator that supports the diagramming techniques required for creation of CSP applications. However, interface standards for moving information in and out of CSP that would allow Index and other CASE vendors to link their products to CSP have yet to be published by IBM.

18 "Our goal is to continue to expand our coverage of all aspects of the systems development life cycle through integration with other strategic products," Gretjak said. He noted that the interface's ability to generate DB2-compliant SQL also makes it compatible with other leading database management systems, including Oracle Corporation's Oracle, Relational Technology's Ingres (Version 6.0) and IBM's SQL/DS.

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     (c) 2002 PR Newswire Association Inc  
 File 610:Business Wire 1999-2002/Dec 03  
     (c) 2002 Business Wire.

Set	Items	Description
S1	7047	E()PIPHANY
S2	25	S1 AND (AUTOMATIC? OR DYNAMIC? OR TRANSPARENT? OR ON(1W)FLY OR BEHIND(2W)SCENE? ? OR REAL()TIME) (3N) (CREAT? OR GENERAT? - OR BUILD? OR CONSTRUCT? OR PRODUC? OR SET????()UP OR ESTABLIS- H?) (3N) (DATABASE? ? OR DATA()BASE? ? OR TABLE? ?)
S3	10	RD (unique items)

3/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02647926 SUPPLIER NUMBER: 91557448 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Making the most of Customer Data -- What you need to know about marketing automation.**  
Chambers, Bill  
VARbusiness, 57  
Sept 16, 2002  
ISSN: 0894-5802 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 2763 LINE COUNT: 00250

... center channels. Chordiant uses an Excel worksheet for data mapping that requires customization during the preinstall phase of the solution, with capability limited to relational **databases**. The **product** lacks support for a true **real - time** environment, apart from content-decisioning based on predefined business rules executed in real-time.

**E . piphany** **E . piphany** 's E.6 offers a comprehensive set of marketing-analysis capabilities that are focused on the marketer who rates ease of use and analytical results...

...its scalable e-mail server, and is positioned as one of the few marketing-automation vendors that provide real-time data capture, analysis and decisioning. **E . piphany** also has actual integration with leading content-management and e-commerce vendors such as ATG, BroadVision and Vignette.

Kana Kana Marketing offers a complete marketing...

3/3,K/2 (Item 2 from file: 275)  
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02504755 SUPPLIER NUMBER: 74826435 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Talisma's scaled-down eCRM Suite is solid. (Product Announcement)**  
Gill, Shammi  
eWeek, 66  
May 21, 2001  
DOCUMENT TYPE: Product Announcement ISSN: 1530-6283 LANGUAGE:  
English RECORD TYPE: Fulltext  
WORD COUNT: 1077 LINE COUNT: 00093

... eCRM Suite's more intuitive user interface and faster integration and uptime give it the edge over Nortel Networks Corp.'s Clarify CRM system and **E . piphany** Inc.'s E.5 e-CRM package, which offer competitive prices and similar automation and collaboration features.

eWeek Labs tested Talisma eCRM Suite 4.1...

...browser-based utility for creating users, roles and teams; and Chat Server, which integrates into the network to enable sales reps and customers to have **real - time** text conversations.

We **created** multiple **databases** for sales, service and marketing on a single server for easier access for administrators. The analytical database and the media or Web components databases can...

3/3,K/3 (Item 3 from file: 275)  
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02486937 SUPPLIER NUMBER: 72066888 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Marketing talk. (Technology Information)**  
Classe, Alison  
Computer Weekly, 43  
March 8, 2001  
ISSN: 0010-4787 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 3036 LINE COUNT: 00244

... that they can be used virtually off-the-shelf. Others recognise that their products will have to co-exist with existing CRM solutions.

Tony Leach, E . piphany executive vice-president, says, "Our product sits on top of conventional customer databases and can both draw data from them and put it back in...

...to complement it.

Another idea is to tailor the interaction based on demographics collected when you register on the site, or in more subtle ways. E . piphany , for example, says its system can personalise behaviour based on a real - time profile constructed from click-stream data, customer databases , transaction systems, third-party data, and other sources.

"What about affiliate marketing," is a question commonly asked by marketing. In other words, they would like...

3/3,K/4 (Item 4 from file: 275)  
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02409098 SUPPLIER NUMBER: 62695030 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Databases Meet CRM Apps In Real Time .(Affinium database middleware from Unica Corp) ( Product Announcement)

Tillett, L. Scott

InternetWeek, 21

June 12, 2000

DOCUMENT TYPE: Product Announcement ISSN: 1096-9969 LANGUAGE:  
English RECORD TYPE: Fulltext

WORD COUNT: 640 LINE COUNT: 00055

Databases Meet CRM Apps In Real Time .(Affinium database middleware from Unica Corp) ( Product Announcement)

Unica Corp. this week will release middleware that creates a real - time connection between databases and Unica's own suite of CRM applications, called Affinium. It works natively with IBM DB2, Informix, Microsoft SQL Server, Oracle and Sybase databases, and...

...campaign datamart," he said. "The last thing that most organizations need is yet another datamart."

Brad Wilson, director of product marketing at CRM software company E . piphany Inc., agreed that real-time analysis of fresh data plays a part in the future of CRM. "All these pieces can be developed with what we call a much higher marketing velocity," he said. E . piphany 's own real-time personalization engine, like Unica's approach, doesn't rely on customer datamarts, he said.

"If you think about it, a mart...

3/3,K/5 (Item 1 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod. Annou. (R)  
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02812823 Supplier Number: 70712943 (USE FORMAT 7 FOR FULLTEXT)  
Moreover and Autonomy Partner to Deliver Breaking Online News to Corporate Portals.

PR Newswire, pNA

Feb 20, 2001

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 826

... a-Box customers and Moreover-indexed headlines will be generally available by early Q2, 2001.

About Moreover

Led by executives with experience in business media, database construction and XML standards, Moreover provides dynamic search

technology to help businesses capture rapidly-changing content from news sources and message boards on the Web. Based on innovative technology for extracting, filtering...

...to their own products, in areas as diverse as online publishing, knowledge management, email routing and document management. These include Vignette, Sybase, Corechange, Brio, Delano, E . piphany , Filenet, Hyperwave, Insight, Intranet Solutions, Intraspect, KnowledgeTrack, Nexor, Novient and OpenMarket.

Autonomy was founded in 1996 and has offices in Boston, Chicago, Dallas, San Francisco...

3/3,K/6 (Item 2 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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02697213 Supplier Number: 66294982 (USE FORMAT 7 FOR FULLTEXT)

**OpenTable Secures \$42 Million in Financing From Top Venture Firms and Travel Industry Leaders.**

Business Wire, p0280

Oct 24, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1580

... customer relationship management (CRM), marketing, yield management and reservations solutions to the \$500 billion global foodservice industry. The company's proprietary electronic reservation book (ERB) **automatically builds** a comprehensive customer **database** which enables restaurants to manage yields, communicate with diners more efficiently, enhance their customer service, and conduct highly targeted on- and off-line marketing campaigns...Partners, and a variety of the industry's premier venture capital firms. Private companies that Integral has invested in include Cerent (acquired by Cisco Systems), E . piphany , Rambus and Sycamore Networks.

Upstart Capital

Upstart Capital is a leading Silicon Valley venture capital firm that invests in early-stage Internet enabling technologies and...

3/3,K/7 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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05288016 Supplier Number: 85892350 (USE FORMAT 7 FOR FULLTEXT)

**AvantGo ships next-generation mobile enterprise software supporting web services; AvantGo M-Business Server 5.0 Application Edition brings the power of enterprise applications, XML web services and the internet to mobile and wireless devices.**

M2 Presswire, pNA

May 13, 2002

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1295

... providing a lower total cost of ownership for enterprises deploying robust mobile applications.

Leading enterprises, including McKesson Corporation, Lippincott Williams & Wilkins, Microsoft, Palm, Onyx Software, E . piphany , Plumtree Software, Arcadia and Telispark, are supporting this powerful mobile solution by working closely with AvantGo to ensure integration of AvantGo mobile solutions ...as C# and Java.

\* Enhance end-user productivity - by enabling developers to effectively use colour, graphics and user interface elements, including DHTML and on-device **database** APIs, the resulting **dynamic** presentation **creates** a high-quality end-user experience.

AvantGo's solutions support mobile devices based on the Palm OS,

3/3,K/8 | (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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02231029 82669844

**A framework for customer relationship management**

Winer, Russell S

California Management Review v43n4 PP: 89-105 Summer 2001

ISSN: 0008-1256 JRNL CODE: CMR

WORD COUNT: 6254

...TEXT: level.

Indeed, this revolution in customer relationship management (CRM)<sup>1</sup> has been referred to as the new "mantra" of marketing.<sup>2</sup> Companies such as Siebel, **E . piphany**, Oracle, Broadvision, Net Perceptions, Kana, and others have developed CRM products that do everything from track customer behavior on the Web to predicting their future... technologies and methodologies employed to implement the steps shown in Exhibit 1 will improve as they usually do. More companies are recognizing the importance of **creating databases** and getting **creative** at capturing customer information. **Real - time** analyses of customer behavior on the Web for better customer selection and targeting is already here (e.g., Net Perceptions), which permits companies to anticipate...

3/3,K/9 | (Item 1 from file: 9)  
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02829701 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Databases Meet CRM Apps In Real Time**

(Unica Corp is to unveil middleware that creates a real - time connection between databases and Unica's own suite of CRM applications)

InternetWeek, p 21

June 12, 2000

DOCUMENT TYPE: Journal ISSN: 0746-8121 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 580

(USE FORMAT 7 OR 9 FOR FULLTEXT)

(Unica Corp is to unveil middleware that creates a real - time connection between databases and Unica's own suite of CRM applications)

TEXT:

...down between data mining and CRM applications. Together, could give marketers a more complete picture of customer behavior.

Unica Corp is to unveil middleware that **creates a real - time connection between databases** and Unica's own suite of CRM applications, called Affinium. It works natively with IBM DB2, Informix, Microsoft SQL Server, Oracle and Sybase databases, and...

...campaign datamart," he said. "The last thing that most organizations need is yet another datamart."

Brad Wilson, director of product marketing at CRM software company **E . piphany** Inc., agreed that real-time analysis of fresh data plays a part in the future of CRM. "All these pieces can be developed with what we call a much higher marketing velocity," he said. **E . piphany** 's own real-time personalization engine, like Unica's approach, doesn't rely on customer datamarts, he said.

"If you think about it, a mart...

3/3,K/10 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
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01217346 CMP ACCESSION NUMBER: INW20000612S0037

**Databases Meet CRM Apps In Real Time**

L. SCOTT TILLET

INTERNETWEEK, 2000, n 817, PG21

PUBLICATION DATE: 000612

JOURNAL CODE: INW LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: NEWS & ANALYSIS

WORD COUNT: 601

Unica Corp. this week will release middleware that **creates a real-time** connection between **databases** and Unica's own suite of CRM applications, called Affinium. It works natively with IBM DB2, Informix, Microsoft SQL Server, Oracle and Sybase databases, and...

...campaign datamart," he said. "The last thing that most organizations need is yet another datamart."

Brad Wilson, director of product marketing at CRM software company E . **pip hany** Inc., agreed that real-time analysis of fresh data plays a part in the future of CRM. "All these pieces can be developed with what we call a much higher marketing velocity," he said. E . **pip hany** 's own real-time personalization engine, like Unica's approach, doesn't rely on customer datamarts, he said.

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Set	Items	Description
S1	2949	(AUTOMATIC? OR DYNAMIC? OR TRANSPARENT? OR ON(1W)FLY OR BEHIND(2W)SCENE? ? OR REAL()TIME)(3N)(CREAT? OR GENERAT? OR BUILD? OR CONSTRUCT? OR PRODUC? OR SET????()UP OR ESTABLISH?)(3N-)(DATABASE? ? OR DATA()BASE? ? OR TABLE? ?)
S2	109062	(RELATIONSHIP? ? OR RELATEDNESS OR RELAT???? OR ASSOCIAT? - OR LINK??? OR OPERATION? ? OR PROCEDURE? ? OR FUNCTION? ? OR - RULE? ? OR INTEGRITY OR CORRECT?)(5N)(ROW? ? OR COLUMN? ? OR - DATABASE? ? OR DATA()BASE? ? OR TABLE? ?)
S3	463067	DEFINITION? ? OR SCHEMA? ?
S4	7362	DATAMART? ? OR DATAWAREHOUSE? ? OR DATA() (MART? ? OR WAREHOUSE? ?)
S5	481	S1 AND S2
S6	71	S5 AND S3
S7	6	S6 AND DEFINITION? ? AND SCHEMA? ?
S8	40	S1(20N)S3 AND S2
S9	30	RD (unique items)
S10	5	S1 AND S4
S11	0	S1 AND ERWIN
S12	263	S1 AND (HUMAN? ? OR PROGRAMMER? ? OR DEVELOPER? ?)
S13	27	S12 AND S3
S14	24	RD (unique items)
S15	19	S14 NOT S9
S16	397	S1 AND (INTEGRITY OR RULE? ? OR CORRECT????)
S17	46	S3 AND S16
S18	19	S1(20N)S3 AND S17
S19	15	RD (unique items)

S20	2	S19 NOT (S9 OR S15)
S21	37	RD S17 (unique items)
S22	18	S21 NOT (S9 OR S15 OR S20)
S23	134	S1 AND DEFINITION? ?
S24	27	S23 AND SCHEMA? ?
S25	22	RD (unique items)
S26	12	S25 NOT (S9 OR S15 OR S20 OR S22)
S27	307	E()PIPHANY
S28	0	S1 AND S27



9/5/1 (Item 1 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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06145326 E.I. No: EIP02397109165

**Title: Drawing database schemas**

Author: Di Battista, Giuseppe; Didimo, Walter; Patrignani, Maurizio; Pizzonia, Maurizio

Corporate Source: Dipto di Info. e Automazione Universita di Roma Tre, 00146 Roma, Italy

Source: Software - Practice and Experience v 32 n 11 September 2002. p 1065-1098

Publication Year: 2002

CODEN: SPEXBL ISSN: 0038-0644

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical)

Journal Announcement: 0209W5

Abstract: A wide number of practical applications would benefit from **automatically generated** graphical representations of **database schemas**, in which **tables** are represented by boxes, and table attributes correspond to distinct stripes inside each **table**. **Links**, connecting attributes of two different **tables**, represent referential constraints or join **relationships**, and may attach arbitrarily to the left- or to the right-hand side of the stripes representing the attributes. To our knowledge no drawing technique is available to automatically produce diagrams in such a strongly constrained drawing convention. In this paper we provide a polynomial time algorithm for solving this problem, and test its efficiency and effectiveness against a large test suite. Also, we describe an implementation of a system that uses such an algorithm and we study the main methodological problems we faced in developing such a technology. 38 Refs.

Descriptors: \*Database systems; Drawing (graphics); Constraint theory; Algorithms; Polynomials; Problem solving; Computational complexity; Software engineering

Identifiers: Algorithm engineering; Orthogonal drawing; Polynomial time algorithm

Classification Codes:

723.3 (Database Systems); 902.1 (Engineering Graphics); 721.1 (Computer Theory (Includes Formal Logic, Automata Theory, Switching Theory & Programming Theory)); 921.1 (Algebra); 723.1 (Computer Programming)

723 (Computer Software, Data Handling & Applications); 902 (Engineering Graphics; Engineering Standards; Patents); 721 (Computer Circuits & Logic Elements); 921 (Applied Mathematics)

72 (COMPUTERS & DATA PROCESSING); 90 (ENGINEERING, GENERAL); 92 (ENGINEERING MATHEMATICS)

9/5/2 (Item 2 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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05866998 E.I. No: EIP01316601192

**Title: Towards hypermedia support for database systems**

Author: Bhaumik, A.; Vaitis, M.; Dixit, D.; Bieber, M.; Galnares, R.; Oria, V.; Krishna, A.; Lu, Q.; Tzagarakis, M.; Alljalad, F.; Zhang, L.

Conference Title: 34th Annual Hawaii International Conference on System Sciences

Conference Location: Maui, HI, United States Conference Date: 20010103-20010106

E.I. Conference No.: 58187

Source: Proceedings of the Hawaii International Conference on System Sciences 2001. p 191

Publication Year: 2001

CODEN: PHISD7 ISSN: 1060-3425

Language: English

Document Type: CA; (Conference Article) Treatment: T; (Theoretical)

Journal Announcement: 0108W2

Abstract: Using a dynamic hypermedia engine (DHE), we propose to automate

the following features for database systems, both on and off the Web. First we **automatically generate links** based on the **database's** relational (physical) **schema** and its original (non-normalized) entity-relationship specification. Second, the application developer can specify which kinds of **database** elements are **related** to diverse elements in the same or different database application, or even another software system. Our current DHE prototype illustrates these for a relational database management system. We propose integrating data warehousing applications into the DHE. We also propose incorporating data mining as a new kind of automated link generation. Passing the application element selected by a user, a data mining system that would discover interesting relationships for that element. DHE would then map each relationship to a link.

Descriptors: \*Database systems; Hypermedia systems; World Wide Web; Software prototyping; Computer software

Identifiers: Dynamic hypermedia engine (DHE)

Classification Codes:

723.3 (Database Systems); 723.1 (Computer Programming)

723 (Computer Software, Data Handling & Applications); 716 (Electronic Equipment, Radar, Radio & Television)

72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATION ENGINEERING)

9/5/3 (Item 3 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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04198909 E.I. No: EIP95072764466

Title: Integrating reengineered databases to support data fusion

Author: Semmel, R.D.; Winkler, R.P.

Corporate Source: Johns Hopkins Univ, Laurel, MD, USA

Source: Journal of Systems and Software v 30 n 1-2 Jul-Aug 1995. p 127-135

Publication Year: 1995

CODEN: JSSODM ISSN: 0164-1212

Language: English

Document Type: JA; (Journal Article) Treatment: A; (Applications)

Journal Announcement: 9509W1

Abstract: Large information systems often require the fusion of multiple databases to achieve desired functionality. In this article, we focus on how automated query formulation capabilities may be realized over a set of fused **databases**. Reengineering issues **related** to **database** design and fusion are discussed, and a query formulation and design system known as QUICK is described. A case study is presented in which the logical schemas for two independent U.S. Army databases are reverse engineered into conceptual schemas that are subsequently used for data fusion and automatic query generation. In addition, enhanced methods that employ meta-level conceptual constructs to support reverse engineering, data fusion, and query formulation are described. (Author abstract) 22 Refs.

Descriptors: \*Database systems; Systems engineering; Large scale systems; Automation; Query languages; Systems analysis; Software engineering; Information retrieval systems; Data structures

Identifiers: Reengineered **database** integration; Data fusion; Reverse reengineering; Metalevel conceptual **constructs**; **Automatic** query generation; Design system; Logical **schemas**

Classification Codes:

723.1.1 (Computer Programming Languages)

723.3 (Database Systems); 723.5 (Computer Applications); 723.1 (Computer Programming); 903.3 (Information Retrieval & Use); 723.2 (Data Processing)

723 (Computer Software); 903 (Information Science)

72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING)

9/5/4 (Item 4 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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03549033 E.I. Monthly No: EIM9301-005033

**Title: The implementation and evaluation of integrity maintenance rules in an object-oriented database .**

Author: Urban, Susan D.; Karadimce, Anton P.; Nannapaneni, Ravi B.

Conference Title: 8th International Conference on Data Engineering

Conference Location: Tempe, AZ, USA Conference Date: 19920203

Sponsor: IEEE Computer Soc

E.I. Conference No.: 17399

Source: Proceedings - International Conference on Data Engineering. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA (IEEE cat n 92CH3097-3). p 565-572

Publication Year: 1992

CODEN: PIDEEG ISBN: 0-8186-2545-7

Language: English

Document Type: PA; (Conference Paper) Treatment: T; (Theoretical)

Journal Announcement: 9301

Abstract: The authors describe an approach to the declarative representation of **integrity** constraints in an object-oriented **database** and the use of **integrity** maintenance rules for the active maintenance of constraints. A semantic data model is used to **automatically generate** class **definitions** and state-altering **database operations** with constraints represented as objects in the **database** . **Integrity maintenance production rules** are **automatically generated** from constraints and stored as extensions to class operations, hiding the details of constraint checking and rule triggering. High-level transactions call state-altering operations and invoke the integrity maintenance process at commit time. Integrity constraints are declaratively represented in the **database** system, with **operations** encapsulating **rules** about how to respond to constraint violations. An analysis of problems associated with cyclic and anomalous rule behavior. 24 Refs.

Descriptors: \*DATABASE SYSTEMS; DATA STRUCTURES

Identifiers: DATA MODELS; **INTEGRITY MAINTENANCE RULES** ; OBJECT ORIENTED **DATABASES** ; SEMANTIC DATA MODEL; **INTEGRITY CONSTRAINTS**

Classification Codes:

723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING)

9/5/5 (Item 5 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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03038018 E.I. Monthly No: EIM9103-011934

**Title: FRED: A frame-based methodology for representing the entity-relationship diagrams.**

Author: Saiedian, Hossein; Strasser, Theodore J. III

Corporate Source: Math & Comput Sci Dept, Univ of Nebraska, Omaha, NE, USA

Conference Title: Proceedings of the 1990 Symposium on Applied Computing

Conference Location: Fayetteville, AR, USA Conference Date: 19900405

Sponsor: IEEE Computer Soc; Arkansas Soc for Computer & Information Technology (ASCIT); ACM

E.I. Conference No.: 13946

Source: Proceedings of the 1990 Symposium on Applied Computing - SAC'90. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA (IEEE cat n 90TH0307-9). p 252-255

Publication Year: 1990

ISBN: 0-8186-2031-5

Language: English

Document Type: PA; (Conference Paper) Treatment: A; (Applications); T; (Theoretical)

Journal Announcement: 9103

Abstract: A methodology called FRED is introduced to represent the E-R diagrams in terms of textual formats called frames. The textual format of the FRED approach allows easy storage, retrieval, and modification and extends the entity representations, as well as the **automatic creation** of data dictionary, relational **database schemas** , and **integrity**

testing. The motivation for developing the FRED methodology is given, and an example is provided to explain the methodology. Plans for future research in this area are also presented. 6 Refs.

Descriptors: \*DATABASE SYSTEMS--\*Relational; COMPUTER SOFTWARE--Software Engineering

Identifiers: ENTITY- RELATIONSHIP DIAGRAMS; DATABASE SCHEMES

Classification Codes:

723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING)

9/5/6 (Item 6 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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02504495 E.I. Monthly No: EI8801002174

**Title: ADDS: A SYSTEM FOR AUTOMATIC DATABASE SCHEMA DESIGN BASED ON THE BINARY-RELATIONSHIP MODEL.**

Author: Shoval, Peretz; Even-Chaime, Moshe

Corporate Source: Ben-Gurion Univ of the Negev, Beer Sheva, Isr

Source: Data Knowl Eng v 2 n 2 Jun 1987 p 123-144

Publication Year: 1987

CODEN: DKENEW ISSN: 0169-023X

Language: ENGLISH

Document Type: JA; (Journal Article) Treatment: A; (Applications); T; (Theoretical)

Journal Announcement: 8801

Abstract: This paper presents the system ADDS that has been developed to assist the database designer designing a database schema. A distinction is made between the stage of information structure analysis in which the information structure of the system is defined according to its user information needs, and the stage of database schema design in which the record types of the **database** and the **relationships** between them are defined. In the first stage a conceptual schema is obtained, represented as an information structure diagram (ISD), and in the later stage the ISD is used to derive the database **schema** in the form of a data structure diagram (DSD). ADDS **automatically creates the database schema** out of a conceptual **schema** which is expressed as an ISD of the binary-relationship data mode. (Edited author abstract) 22 refs.

Descriptors: \*DATABASE SYSTEMS--\*Design; DATA PROCESSING--Data Structures

Identifiers: BINARY-RELATIONSHIP MODEL; CONCEPTUAL SCHEMA DESIGN

Classification Codes:

723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING)

9/5/7 (Item 7 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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02117055 E.I. Monthly No: EIM8609-059798

**Title: SEMANTIC DATA ENGINEERING FOR GENERALIZED DATABASES.**

Author: Nguyen, G. T.

Corporate Source: Univ de Grenoble, St. Martin d'Herès, Fr

Conference Title: International Conference on Data Engineering.

Conference Location: Los Angeles, CA, USA Conference Date: 19860205

Sponsor: IEEE Computer Soc, Los Alamitos, CA, USA

E.I. Conference No.: 08298

Source: Publ by IEEE, New York, NY, USA. Available from IEEE Service Cent (Cat n 86CH2261-6), Piscataway, NJ, USA p 400-406

Publication Year: 1986

ISBN: 0-8186-0655-X

Language: English

Document Type: PA; (Conference Paper)

Journal Announcement: 8609

Abstract: Current trends in database research emphasize the development of new tools for improved semantics definition and manipulation. The need for expert knowledge integration in database applications and distributed

information usage is stressed. Of particular interest today is also the cooperation of artificial intelligence techniques and database technology. A new method for **database** and knowledge base **integrity** control, based on object-oriented concepts and on logic programming, is presented. Use is made of a novel technique for semantic **integrity** enforcement in **database** applications, based on the notions of object prototypes and database sample. A prototype is an incomplete object instance **created dynamically** in the **database**. It is representative of the family defined by an object declaration in the database **schema**. A database sample is a set of prototypes. It is used for the certification, i. e., the control of the correctness, of all user operations concerning the definition and the modification of the database schema and the data. 12 refs.

Descriptors: \*DATABASE SYSTEMS; ARTIFICIAL INTELLIGENCE--Expert Systems

Identifiers: INTEGRITY CONTROL; KNOWLEDGE-BASE SYSTEMS; LOGIC PROGRAMMING  
; OBJECT-ORIENTED CONCEPTS; SEMANTIC DATA ENGINEERING

Classification Codes:

723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING)

9/5/8 (Item 8 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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01900395 E.I. Monthly No: EIM8510-063331

Title: CDDL - A PROTOTYPE DATA MANAGEMENT SYSTEM WITH UPDATE PROGRAM  
GENERATION FACILITIES.

Author: Deak, Edith; Ying, John; Schenker, Gail; Gewirtz, William

Corporate Source: AT&T Bell Lab, Holmdel, NJ, USA

Conference Title: Conference Record - IEEE International Conference on  
Communications: Integrating Communication for World Progress.

Conference Location: Boston, MA, USA Conference Date: 19830619

Sponsor: IEEE Communications Soc, New York, NY, USA; IEEE, Boston  
Section, Boston, MA, USA

E.I. Conference No.: 05586

Source: Conference Record - International Conference on Communications  
1983-v.1-Publ by IEEE, New York, NY, USA. Available from IEEE Service Cent  
(Cat n 83CH1874-7), Piscataway, NJ, USA p 131-135

Publication Year: 1983

CODEN: CICC DV ISSN: 0536-1486

Language: English

Document Type: PA; (Conference Paper)

Journal Announcement: 8510

Abstract: This paper describes an experimental database management system that emphasizes administrative issues. A data definition language with rich semantic modeling capabilities is of central importance for providing administrative support. The system described is based on a semantically expressive data **definition** language, CDDL, and includes an update program generator that **automatically produces** efficient update programs that ensure **database integrity**. Such facilities reduce the cost of administering the growing number of database dependent features that are being introduced into communications networks. 8 refs.

Descriptors: \*DATABASE SYSTEMS--\*Management; DATA PROCESSING, BUSINESS;  
COMPUTER PROGRAMMING LANGUAGES; COMPUTER PROGRAMS

Identifiers: UPDATE PROGRAMS; CONSTRAINT DATA DEFINITION LANGUAGE;  
DATABASE MANAGEMENT SYSTEM

Classification Codes:

723 (Computer Software); 912 (Industrial Engineering & Management)

72 (COMPUTERS & DATA PROCESSING); 91 (ENGINEERING MANAGEMENT)

9/5/9 (Item 9 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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01813231 E.I. Monthly No: EI8510088390 E.I. Yearly No: EI85030408

Title: ISMOS: AN EXPERIMENTAL DATABASE-ORIENTED TOOL GENERATOR.

Author: Nakata, Shuji; Yamazaki, Go

Corporate Source: NEC, Tokyo, Jpn  
Source: Journal of Systems and Software v 4 n 2-3 Jul 1984, Sel Pap from  
the 3rd Int Conf on Entity-Relat Approach, 1983 p 219-238  
Publication Year: 1984  
CODEN: JSSODM ISSN: 0164-1212  
Language: ENGLISH  
Document Type: JA; (Journal Article) Treatment: X; (Experimental)  
Journal Announcement: 8510  
Abstract: A database-oriented tool is such a tool using a Database  
Management System to facilitate an integrated management of design  
information. This paper describes **automatic database -oriented tool  
generation** . The model-based approach described in this paper uses the  
Entity- **Relationship** based model for **database -oriented tool definition**  
, and a program generation technique for database-oriented tool software  
generation. A prototype database-oriented tool generator, called ISMOS, has  
been developed and shown to be practicable by generating several  
database-oriented tools. Given such experimental results, some claims for  
advantages of the model-based approach (i. e. , flexibility and cost/time  
reduction for acquiring a database-oriented tool) are substantiated.  
(Author abstract) 24 refs.  
Descriptors: \*DATABASE SYSTEMS; COMPUTER SOFTWARE  
Identifiers: ISMOS; **DATABASE -ORIENTED TOOL GENERATOR; ENTITY-  
RELATIONSHIP MODEL; RELATIONAL DATABASES**  
Classification Codes:  
723 (Computer Software)  
72 (COMPUTERS & DATA PROCESSING)

9/5/10 (Item 1 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

01567520 ORDER NO: AAD13-83764  
**JAVA-BASED HETEROGENEOUS DATABASE INTERFACE**  
Author: EL-REFAI, MOHAMED Y.  
Degree: M.SC.  
Year: 1996  
Corporate Source/Institution: UNIVERSITY OF LOUISVILLE (0110)  
Co-directors: A. S. ELMAGHRABY; D. J. CHANG  
Source: VOLUME 35/04 of MASTERS ABSTRACTS.  
PAGE 1038. 69 PAGES  
Descriptors: COMPUTER SCIENCE  
Descriptor Codes: 0984

This thesis explores an important point in the Internet programming  
environment, which was not taken into consideration in most of the **related**  
research projects that dealt with **database** user interface. This point is  
the portability of the user interface and its accessibility for the user.  
Also, the possibility of **creating** a user interface to heterogeneous  
**database schema 's on the fly** , without any a priori knowledge of the  
**database schema** . Using the Java programming language for the Internet  
and-a-server-written in Microsoft Visual C\$\sp{++}\$, capable of Open  
Database Connectivity System ODBC communication, this could be done. The  
system that was developed is accessible from any machine running a web  
browser and connected to the Internet regardless of the hardware  
manufacturer or the operating system. The creation of a heterogeneous  
database interface was possible through retrieving information about the  
database schema using the ODBC communication capability in the VC\$\sp{++}\$  
server.

9/5/11 (Item 2 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

01293056 ORDER NO: AAD93-15916  
**ON CONCEPTUAL DESIGN OF ACTIVE DATABASES (DATABASES)**  
Author: TANAKA, ASTERIO KIYOSHI

Degree: PH.D.

Year: 1992

Corporate Source/Institution: GEORGIA INSTITUTE OF TECHNOLOGY (0078)

Director: SHAMKANT B. NAVATHE

Source: VOLUME 54/01-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 339. 182 PAGES

Descriptors: COMPUTER SCIENCE; INFORMATION SCIENCE

Descriptor Codes: 0984; 0723

An active database management system (DBMS) is a system with full database functionality plus the additional capabilities of monitoring the state of the database and executing some predefined actions when appropriate events are detected. Although this is a well-established research area, and a few commercial relational DBMSs already support some active capabilities, no support for conceptual modeling and design of active database behavior is currently provided to take advantage of the new capabilities. The current database design methodology forces the user to defer major modeling decisions concerning the active behavior of the database to late stages of the design process, where the semantics of the real-world situations are obscured by the intricacies of the implementation model.

This research addresses the conceptual design problem by incorporating active database behavior into the Entity-Relationship (ER) model, in the form of events and rules. The resulting Entity-Relationship-Event-Rule (ER)\$\sp2\$ model provides an extended architecture of tools for assisting the database designer in the task of specifying, analyzing, and translating active behavior into executable data definition statements in specific relational DBMSs. Meta-behaviors are identified that automatically enforce invariant properties of the model, along with user-defined integrity constraints. A high-level Petri net, e/r-net, whose places are events, transitions are rules, and net inscriptions are (ER)\$\sp2\$ schema definitions is proposed as an analysis tool for validating the active behavior design. A prototype implementation of the extended architecture is described that takes advantage of the meta-data about the design process generated during the schema translation.

The following benefits result from the extended data modeling and database design methodology: reduced database design and application development effort with the automatic generation of meta-behavior and translation of active behavior into executable DBMS language constructs; better control of the development of database applications by introducing precision in the specification of active behavior; and better quality of the overall design, with an interactive environment capturing the knowledge of application experts and automatically dealing with the DBMS constraints.

9/5/12 (Item 3 from file: 35)

DIALOG(R) File 35:Dissertation Abs Online

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01203676 ORDER NO: AAD92-07902

**A METHODOLOGY FOR ASSISTING THE NOVICE END-USER TO DEVELOP SMALL SYSTEMS THROUGH AUTOMATIC SCHEMA AND CODE GENERATION AND PROTOTYPING ( DATABASE DESIGN)**

Author: STEINBERG, GEOFFREY

Degree: PH.D.

Year: 1991

Corporate Source/Institution: TEMPLE UNIVERSITY (0225)

Major Adviser: GIORA BARAM

Source: VOLUME 52/09-A OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 3159. 218 PAGES

Descriptors: EDUCATION, BUSINESS; COMPUTER SCIENCE

Descriptor Codes: 0688; 0984

The term software crisis reflects the increasing difficulty of software developers in meeting user requirements in a timely fashion. Spending more time on the requirements analysis stage has been suggested as the best solution for ensuring that a finished system meets user requirements and for reducing the lifetime cost of software.

End-users develop systems often without performing a thorough system analysis. End-users may also have difficulty understanding complex **databases (relationships among multiple tables)**. There are gaps in the availability of tools and techniques for addressing end-user class systems. This dissertation experimentally examines a model which addresses this gap and extends the concepts developed in recent research for preparing logical schemes.

The new model represents a methodology for developing a complete system prototype by the end-user. The user enters specifications in English sentences that are automatically converted into a logical database schema. User validation of the schema is provided for, and code is automatically generated to provide a prototype for maintaining the relationships in the schema. Two feedback loops (in technical domain and user domain) are included that allow the user to cycle through the phases of the methodology, until a satisfactory application prototype is developed.

Validation of the model involved demonstrating that it performs schema modification operations in accordance with relational theory. It was also demonstrated that it could be employed by end-users for developing a real and complete DBMS based application. Feedback was shown to be significantly important to the users performance, but the contribution of user domain feedback, although higher than that of technical domain feedback, was not shown to be significantly different. That finding suggests that the time and complexity of technical domain feedback can be eliminated while providing the information that end-users require to properly design database schemes.

9/5/13 (Item 4 from file: 35)  
DIALOG(R) File 35:Dissertation Abs Online  
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01161483 ORDER NO: AAD91-17585  
**THE NESTED ENTITY- RELATIONSHIP MODEL (RELATIONAL DATABASE , OBJECT MODEL)**

Author: JI, WENGUANG  
Degree: PH.D.  
Year: 1990  
Corporate Source/Institution: ILLINOIS INSTITUTE OF TECHNOLOGY (0091)  
Adviser: C. ROBERT CARLSON  
Source: VOLUME 52/01-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 344. 175 PAGES  
Descriptors: COMPUTER SCIENCE  
Descriptor Codes: 0984

The primary goal of this dissertation is to propose a new approach to modelling large and complicated **database** objects. The Nested Entity-Relationship (NER) model is proposed as an improvement for the "flat" semantic models in order to overcome the comprehension and the layout problem exhibited by them. The third dimension is utilized by the NER model in the development of both complex entity types and complex relationship types. As a design tool, the NER model provides a top down approach to the refinement of object structures and semantic connections. As a logical description of an existing **database**, the NER model can be **automatically generated** based on the relational **schema** and inclusion dependencies.

The NER model is theoretically sound in the sense that each complex object type is "supportable" in terms of its structural properties. This is shown based on the theory of the complex relational views defined in this dissertation. In addition, each object is "semantically consistent" if it conforms the semantic constraints.

9/5/14 (Item 1 from file: 202)  
DIALOG(R) File 202:Information Science Abs.  
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2402438  
**ADDS: a system for automatic database schema design based on the binary-relationship model.**



Author(s): Shoval, P; Even-Chaime, M  
Corporate Source: Ben-Gurion University of the Negev, Beer Shevae  
Data and Knowledge Engineering vol. 2, no. 2, pages 123-144  
Publication Date: Jun 1987  
ISSN: 0169-023X  
Language: English  
Document Type: Journal Article  
Record Type: Abstract  
Journal Announcement: 2400

This paper presents the system ADDS that has been developed to assist the database designer designing a database schema. A distinction is made between the stage of information structure analysis in which the information structure of the system is defined according to its user information needs, and the stage of database schema design in which the record types of the **database** and the **relationships** between them are defined. In the first stage a conceptual schema is obtained, represented as an information structure diagram (ISD), and in the later stage the ISD is used to derive the database **schema** in the form of a data structure diagram (DSD). ADDS **automatically creates the database schema** out of a conceptual **schema** which is expressed as an ISD of the binary-relationship data mode. The resulting **schema** consists of normalized record types, according to the relation model, along with hierarchical/set relationships between "owner" and "member" record types, as in the CODASYL/Network model. ADDS applies algorithms to convert the conceptual schema into the database schema. It is implemented on a micro-computer under MS-DOS using dBASE III.

Descriptors: Automation; Databases; Design; Models  
Classification Codes and Description: 6.02 (Bibliographic Search Services, Databases)  
Main Heading: Information Systems and Applications

9/5/15 (Item 1 from file: 2)  
DIALOG(R) File 2:INSPEC  
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7238156 INSPEC Abstract Number: C2002-05-6160B-020  
**Title: An automatic generation model for Web-based database applications**  
Author(s): Shui Yu; Changgui Chen; Wanlei Zhou  
Author Affiliation: Sch. of Comput. & Math., Deakin Univ., Clayton, Vic., Australia  
Conference Title: Proceedings of the IASTED International Conference. Parallel and Distributed Computing and Systems p.62-6  
Editor(s): Gonzalez, T.  
Publisher: ACTA Press, Anaheim, CA, USA  
Publication Date: 2001 Country of Publication: USA 699 pp.  
ISBN: 0 88986 307 5 Material Identity Number: XX-2001-01998  
Conference Title: Proceedings of PDCS'01. Parallel and Distributed Computing and Systems  
Conference Sponsor: IASTED  
Conference Date: 21-24 Aug. 2001 Conference Location: Anaheim, CA, USA  
Language: English Document Type: Conference Paper (PA)  
Treatment: Practical (P)  
Abstract: In this paper, we present a model by which users can customise their applications in the environment of Web-based database systems. First of all, we discuss the limitations of the current applications of Web-based **database** systems, then we present a component-based **automatic generation** model in a Web-based environment. In this model, users can travel in the database **schema**, choosing required attributes and **database operations**, such as INSERT, UPDATE and DELETE. After that, we describe two important algorithms for our model, namely the displaying of database schema and the SQL generation. At the end of the paper, we conduct a simple experiment to demonstrate the performance of the model. (14 Refs)  
Subfile: C  
Descriptors: application generators; distributed databases; SQL  
Identifiers: Webbased database; component-based automatic generation

model; database schema

Class Codes: C6160B (Distributed databases); C6115 (Programming support)  
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9/5/16 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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6826884-INSPEC Abstract Number: C2001-03-6160D-002

**Title: Drawing relational schemas**

Author(s): Di Battista, G.; Didimo, W.; Patrignani, M.; Pizzonia, M.

Author Affiliation: Dipt. di Inf. & Autom., Roma Tre Univ., Italy

Conference Title: Proceedings of the Joint EUROGRAPHICS and IEEE TCVG Symposium on Visualization p.53-62

Publisher: Springer-Verlag/Wein, Wien, Austria

Publication Date: 2000 Country of Publication: Austria xi+296 pp.

ISBN: 3 211 83515 6 Material Identity Number: XX-2000-03032

Conference Title: Data Visualization 2000. Proceedings of the Joint EUROGRAPHICS and IEEE TCVG Symposium on Visualization

Conference Date: 29-31 May 2000 Conference Location: Amsterdam, Netherlands

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T); Experimental (X)

Abstract: A wide number of practical applications would benefit from **automatically generated** graphical representations of relational **schemas**, in which **tables** are represented by boxes, and table attributes correspond to distinct stripes inside each **table**. **Links**, connecting two attributes of two different tables, represent relational constraints or join paths, and may attach arbitrarily to the left or to the right side of the stripes representing the attributes. To our knowledge no drawing technique is available to automatically produce diagrams in such a strongly constrained drawing convention. We provide a polynomial time algorithm solving this problem and test its efficiency and effectiveness against a large test suite. (18 Refs)

Subfile: C

Descriptors: computational complexity; constraint handling; data visualisation; diagrams; relational databases; tree data structures

Identifiers: relational schemas; graphical representations; automatic generation; box representation; table attributes; attribute links; relational constraints; join paths; stripes; drawing technique; diagrams; polynomial time algorithm

Class Codes: C6160D (Relational databases); C6120 (File organisation); C6130B (Graphics techniques)

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9/5/17 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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6370745 INSPEC Abstract Number: C1999-11-6130D-012

**Title: Automatic generation of database schema for structured hypermedia documents**

Author(s): Law, K.C.K.; Ip, H.H.S.; Fang Wei

Author Affiliation: Image Comput. Group, Hong Kong City Univ., Kowloon, Hong Kong

Conference Title: Managing Information Technology Resources in Organizations in the Next Millennium. 1999 Information Resources Management Association International Conference p.673-82

Editor(s): Khosrowpour, M.

Publisher: Idea Group Publishing, Hershey, PA, USA

Publication Date: 1999 Country of Publication: USA 1140 pp.

ISBN: 1 878289 51 9 Material Identity Number: XX-1999-01300

Conference Title: Proceedings of the 1999 Information Resources Management Association International Conference

Conference Date: 16-19 May 1999 Conference Location: Hershey, PA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P); Theoretical (T)

Abstract: We propose a layered model for hypermedia document systems and use this model in the design and implementation of a prototype hypermedia document system. The design of the hypermedia document system requires the storage structure to be closely coupled with the logical structure of a specific class, in order to maintain data integrity and dependency, and to optimize for access control. We focus on some important components in our system: parser, tree generator and database-schema manager. The parser and tree-generator are used to check the syntax and semantics of the document structure description and generate a tree structure as the document internal representation which can be visualized for the purpose of data capturing and navigating. In determination of the tables and fields of the database in the database-schema-manager, we introduce an algorithm and **procedure** to generate the final **database** schema from the document structure tree. The advantages and benefits of this approach are to allow the design and implementation of hypermedia systems to be automated and simplified. (10 Refs)

Subfile: C

Descriptors: authorisation; computational linguistics; data integrity; database theory; grammars; hypermedia; tree data structures

Identifiers: automatic generation; structured hypermedia documents; layered model; storage structure; data integrity; data dependency; access control; parser; tree generator; database-schema manager; syntax; semantics; tree structure; visualization; data capture; data navigation

Class Codes: C6130D (Document processing techniques); C6130M (Multimedia); C4250 (Database theory)

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9/5/18 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

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6234498 INSPEC Abstract Number: C1999-06-6160D-009

Title: **Implementation of an automatic database schema generator using object-oriented modeling tool**

Author(s): Hunsuk Chung; Eunkyung Lee; Byunggon Kim; Haecbull Lim

Journal: Journal of KISS(C) (Computing Practices) vol.4, no.6 p. 773-90

Publisher: Korea Inf. Sci. Soc,

Publication Date: Dec. 1998 Country of Publication: South Korea

CODEN: CKNCFY ISSN: 1226-2293

SICI: 1226-2293(199812)4:6L.773:IADS;1-E

Material Identity Number: E347-1999-001

Language: Korean Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: The design of the database schema is one of the most important parts of **database operations**. OMT (object modeling technique), an object-oriented modeling tool, is frequently used to model the real world in a database conceptual schema. In this paper, we implement a system which automatically translates an OMT-designed schema into an effective relational database schema. To represent the various types of object semantics in OMT with a relational schema, we classify the components in OMT and define effective transformation rules based on this classification. The implemented system uses these transformation rules to **produce** the **schema** and the **tables** of the relational **database** **automatically**. (11 Refs)

Subfile: C

Descriptors: application generators; data models; object-oriented methods; relational databases

Identifiers: **automatic database schema generator**; object-oriented modeling tool; OMT; object modelling technique; relational database conceptual schema; automatic schema translation; object semantics; transformation rules; component classification; database tables

Class Codes: C6160D (Relational databases); C6160J (Object-oriented databases); C6120 (File organisation); C6115 (Programming support)

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9/5/19 (Item 5 from file: 2)

DIALOG(R) File 2:INSPEC

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6223792 INSPEC Abstract Number: C1999-05-6160D-009

**Title: Test data generation**

Author(s): Rajanna, V.

Author Affiliation: Data Res. Dev. & Design Centre, Pune, India

Journal: Software Engineering Notes vol.23, no.5 p.65-8

Publisher: ACM,

Publication Date: Sept. 1998 Country of Publication: USA

CODEN: SFENDP ISSN: 0163-5948

SICI: 0163-5948(199809)23:5L:65:TDG;1-G

Material Identity Number: L512-1999-005

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

**Abstract:** The paper presents a test data generator tool for automatically generating test data for relational database applications. This tool was developed to automate the testing process of various products at our organization. A test specification language (tsl) is proposed, which is the quintessential composition of domain specification, constraint specification, and volume specification, to model table-concerned information. Domain specification defines the domain pattern of every column pertaining to each **table**. Constraint specification captures referential **integrity** constraints among the **tables**, and volume specification embodies size **related** information. Volume specification allows the user to have control over the volume of test data to be generated and also provides a channel for test data selection by allowing the user to state separate volume for each foreign primary key relation. An application filter is also developed, which produces the former two parts of test specification language from sql-create-table-definitions, and volume specification part has to be hand-coded by the user. The merits of this application filter are that it enables one to keep the test data in-synch with the **dynamic** nature of **create - table - definition** and it eliminates the need for the user to bone up on tsl specifications. It also enables one to adopt the current framework to any other language like sql. The test data generator takes tsl specifications and generates test data for each table satisfying the specifications. The test data for each table is emitted in a separate ascii file so that they can be directly populated into any database using sql-loader. (12 Refs)

Subfile: C

Descriptors: automatic programming; data integrity; formal specification; program testing; relational databases

Identifiers: test data generator tool; relational database applications; automatic test data generation; test specification language; domain specification; constraint specification; volume specification; table-concerned information; domain pattern; referential integrity constraints; foreign primary key relation; application filter; sql-create-table-definitions; tsl specifications; test data generator; sql-loader

Class Codes: C6160D (Relational databases); C4250 (Database theory); C6150G (Diagnostic, testing, debugging and evaluating systems); C6110F (Formal methods); C6130 (Data handling techniques)

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9/5/20 (Item 6 from file: 2)

DIALOG(R) File 2:INSPEC

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6112285 INSPEC Abstract Number: C9901-6160-020

**Title: Flexible Query Answering Systems. Third International Conference, FQAS'98. Proceedings**

Editor(s): Andreassen, T.; Christiansen, H.; Larsen, H.L.

Publisher: Springer-Verlag, Berlin, Germany

Publication Date: 1998 Country of Publication: Germany ix+392 pp.

ISBN: 3 540 65082 2 Material Identity Number: XX98-02742

Conference Title: Flexible Query Answering Systems. Third International Conference, FQAS'98. Proceedings

Conference Date: 13-15 May 1998 Conference Location: Roskilde, Denmark

Language: English Document Type: Conference Proceedings (CP)

Abstract: The following topics were dealt with: a flexible query language; query answering by diagram transformation; query subsumption; partial answers for unavailable data sources; diverse answers from flexible queries; answering queries in context; reformulation of Boolean queries with concept lattices; commonality; a schema-based approach to modelling and querying WWW data; querying multimedia documents by spatiotemporal structure; data validity and completeness; a disjunctive deductive database system; a server for fuzzy SQL queries; query answering in nondeterministic, nonmonotonic logic databases; optimization of logic queries with MIN and MAX predicates; searching for general documents; low-retrieval remote querying dialogue with fuzzy unification; knowledge discovery for flexible querying; question answering with textual case-based reasoning; using stem rules to refine document retrieval queries; application of fuzzy rule induction to data mining; applying genetic algorithms to the feature selection problem in information retrieval; cooperative answering in databases; automatic generation of trigger rules for integrity enforcement in relational databases with view definition; estimating the quality of databases; querying clocked databases; querying for facts and content in hypermedia documents; querying objects with complex static structure; an alternating well-founded semantics for query answering in disjunctive databases; a cooperative question-answering model; semantic query optimization through abduction and constraint handling; and implementing fuzzy querying via the WWW.

Subfile: C

Descriptors: query processing

Identifiers: flexible query answering systems; query language; diagram transformation; query subsumption; partial answers; unavailable data sources; context; Boolean query reformulation; concept lattices; commonality; schema-based approach; data modelling; World Wide Web data; multimedia documents; spatiotemporal structure; data validity; data completeness; disjunctive deductive database system; server; fuzzy SQL queries; nondeterministic nonmonotonic logic databases; abduction; logic queries; MIN predicates; MAX predicates; document searching; low-retrieval remote querying dialogue; fuzzy unification; knowledge discovery; semantic query optimization; textual case-based reasoning; stem rules; document retrieval query refinement; fuzzy rule induction; data mining; genetic algorithms; feature selection; information retrieval; constraint handling; automatic trigger rule generation; data integrity enforcement; relational databases; view definition; database quality estimation; clocked databases; facts; content-based querying; hypermedia documents; object querying; complex static structure; alternating well-founded semantics; disjunctive databases; cooperative question answering; fuzzy querying

Class Codes: C6160 (Database management systems (DBMS)); C4250 (Database theory)

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9/5/21 (Item 7 from file: 2)

DIALOG(R) File 2:INSPEC

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5239006 INSPEC Abstract Number: C9605-6110F-064

Title: Using structured methods to improve real-time systems development

Author(s): McDonald, W.

Journal: Real-Time Magazine no.1 p.95-100

Publisher: Real-Time Consult,

Publication Date: Jan.-March 1996 Country of Publication: Belgium

ISSN: 1018-0303

SICI: 1018-0303(199601/03)1L:95:USMI;1-D

Material Identity Number: E387-96002

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: This article describes how real-time systems development can benefit from the use of requirements analysis and design methods. EasyCASE

is a typical CASE tool which supports this methodology. A defined development process that uses appropriate requirements analysis and design methods and tools can significantly improve system development productivity and quality. By providing structure to the process, these tools and methods allow developers to use their knowledge and expertise to maximum advantage. A tool such as EasyCASE adds further benefit by streamlining the initial creation of the models as well as the subsequent modification as the models are iteratively refined. EasyCASE also automates the tedious method rule checking, generates database data definition language automatically, and produces reports on project data kept in the data dictionary. (0 Refs)

Subfile: C

Descriptors: computer aided software engineering; formal specification; real-time systems; software tools; structured programming

Identifiers: structured methods; real-time systems development; requirements analysis; design methods; CASE tool; method rule checking; database data definition language; project data; data dictionary

Class Codes: C6110F (Formal methods); C6115 (Programming support)

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9/5/22 (Item 8 from file: 2)

DIALOG(R)File 2:INSPEC

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03776803 INSPEC Abstract Number: C91004699

Title: FRED: a frame-based methodology for representing the entry-relationship diagrams

Author(s): Saiedian, H.; Strasser, T.J., III

Author Affiliation: Dept. of Math. & Comput. Sci., Nebraska Univ., Omaha, NE, USA

Conference Title: Proceedings of the 1990 Symposium on Applied Computing (Cat. No.90TH0307-9) p.252-5

Editor(s): Berghel, H.; Talburt, J.; Roach, D.

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 1990 Country of Publication: USA xiv+386 pp.

ISBN: 0 8186 2031 5

U.S. Copyright Clearance Center Code: TH0307-9/90/0000-0252\$1.00

Conference Sponsor: IEEE; ACM; Arkansas Soc. Comput. Inf. Technol

Conference Date: 5-6 April 1990 Conference Location: Fayetteville, AR, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: A methodology called FRED is introduced to represent the E-R diagrams in terms of textual formats called frames. The textual format of the FRED approach allows easy storage, retrieval, and modification and extends the entity representations, as well as the automatic creation of data dictionary, relational database schemas, and integrity testing. The motivation for developing the FRED methodology is given, and an example is provided to explain the methodology. Plans for future research in this area also presented. (6 Refs)

Subfile: C

Descriptors: data integrity; knowledge representation; relational databases

Identifiers: FRED; frame-based methodology; entry-relationship diagrams; E-R diagrams; textual formats; storage; retrieval; modification; data dictionary; relational database schemas; integrity testing

Class Codes: C6160D (Relational DBMS)

9/5/23 (Item 1 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00385236 95HC05-002

A cure for database fears

Moore, John

Home Office Computing, May 1, 1995, v13 n5 p34, 38, 2 Page(s)

ISSN: 0899-7373

Company Name: Alpha Software

Product Name: Alpha Five

Languages: English

Document Type: Software Review

Grade (of Product Reviewed): A

Hardware/Software Compatibility: IBM PC Compatible; Microsoft Windows

Geographic Location: United States

Presents a very favorable review of Alpha Five for Windows (\$495), database management program from Alpha Software (800, 617). Says it offers Genies that **automatically creates a database** and provides useful definitions of **database** terms, the ability to **establish relationships** among different **databases**, easy customization of basic form layouts, and support for drag-and-drop operation and OLE objects. However, says some key commands do not follow Windows conventions, and does not support other database formats and is not downward compatible with its previous release. Calls its an excellent product. Rated 3.5 stars out of four. Includes a screen display and a summary card. (dpm)

Descriptors: Data Base Management; Software Review; Window Software; Object-oriented

Identifiers: Alpha Five; Alpha Software

9/5/24 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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03001447 JICST ACCESSION NUMBER: 96A0882500 FILE SEGMENT: JICST-E  
**Prototyping of Architecture Description Input Subsystem for Codesign Workbench PEAS-III.**

SHIOMI AKICHIKA (1); KATAOKA KENJI (2); IMAI MASAHARU (3); AOYAMA YOSHIHIRO (4); SATO JUN (5); HIKICHI NOBUYUKI (6)

(1) Shizuoka Univ.; (2) Toyohashi Univ. of Technol.; (3) Osaka Univ., Grad. Sch.; (4) Fukui Natl. Coll. of Technol.; (5) Tsuruoka Natl. Coll. of Technol.; (6) Softw. Res. Assoc. Inc.

Joho Shori Gakkai Shinpojiumu Ronbunshu, 1996, VOL.96,NO.4, PAGE.129-134, FIG.5, REF.4

JOURNAL NUMBER: Y0978BAT

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:658.51 681.325/.326.009.16

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: This paper describes a prototype implemation of the input subsystem of the PEAS-III, which is a HW/SW codesign workbench for ASIP(Application Specific Integrated Processor) design. Through the design experiment using a sample CPU core, it was confirmed that an interconnection among hardware modules can be successfully extracted from the resource **definition table** and the micro **operation table**, which are used for the **automatic generation** of the HDL description of the CPU core design. (author abst.)

DESCRIPTORS: ASIC; coprocessor; input; VHDL; window system; instruction system; CPU

BROADER DESCRIPTORS: integrated circuit; micro circuit; special purpose processor; hardware; input-output; system description language; programming language; formal language; language; method; system; processing equipment; equipment

CLASSIFICATION CODE(S): JE10000A; JC04030Y

9/5/25 (Item 2 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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01711802 JICST ACCESSION NUMBER: 93A0317399 FILE SEGMENT: JICST-E  
**QUALTES: An Expert System with a Generic Knowledge Base for Substation Stoppage Sequence Operations.**

SUZUKI TSUNEHICO (1); TERANO TAKAO (2); KUDO RYUJI (3); UEBAYASHI TOSHIYUKI



(3); IKAMI KATSUNORI (4); IIDA KEN (4)  
(1) Konpyutavtekunorojivintegureita; (2) Univ. of Tsukuba, Graduate School  
; (3) Nihon Unisys, Ltd.; (4) Chubusofutoenjiniaringu  
Unisys Giho (Unisys Technology Review), 1993, VOL.12, NO.4, PAGE.562-573,  
FIG.5, REF.19

JOURNAL NUMBER: X0729ABO ISSN NO: 0914-9996

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:007.51 621.311.4

LANGUAGE: Japanese

COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: Today, most AI applications are developed from very initial stages. As a result, so-called "Knowledge acquisition bottleneck" make it difficult to develop practical systems. The knowledge for problem solving should be formulated to be used for future applications. One way to solve this problem is to develop special purpose development tools. There are two approaches to develop such tool: the task specific approach and the domain specific approach. The latter is effective when the characteristics of target domain tasks are well specified and when there are serious needs to develop similar applications. Therefore, we have adopted the domain specific one to develop QUALTES. The main purposes of QUALTES are to support human operators to make and verify "Command Table Sheets", which define the proper operation sequences while executing maintenance tasks at a substation. Using the Graphical Interface of QUALTES, end users can easily define the configuration of an arbitrary substation. Command Table Sheets are automatically generated from the definition, and they can be easily verified by the simulator. (author abst.)

DESCRIPTORS: expert system; substation; service interruption; knowledge base; artificial intelligence; computer system development; support program; user interface

BROADER DESCRIPTORS: artificial intelligence system; computer application system; system; electric power facility; electric fault; failure; development; computer program; software; interface

CLASSIFICATION CODE(S): JE08000Z; NB04000S

9/5/26 (Item 1 from file: 6)

DIALOG(R) File 6:NTIS

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2177811 NTIS Accession Number: ADA380801/XAB

**Generating Executable Persistent Data Storage/Retrieval Code from Object-Oriented Specifications**

(Master's thesis)

Buckwalter, S. R.

Air Force Inst. of Tech., Wright-Patterson AFB, OH. School of Engineering.

Corp. Source Codes: 000805002; 012225

Report No.: AFIT/GCS/ENG/00M-02

8 Mar 2000 100p

Languages: English Document Type: Thesis

Journal Announcement: USGRDR0024

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NTIS Prices: PC A06/MF A02

Country of Publication: United States

This research creates a methodology and corresponding prototype for the transformation of object-oriented (OO) specifications to represent the corresponding relational schemas that are used to automatically generate database design language (DDL). The transformation design decisions and specifications are then used to generate database manipulation language (DML) that can be embedded within the software application code generated from the same OO specifications. This concept of developing a model for producing compilable and executable code from formal software specifications has long been a goal of software engineers.



Previous research at the Air Force Institute of Technology (AFIT) has not focused on the representation of persistent data from OO software specifications. Relational databases are historically among the most popular methods of managing persistent data associated with software systems. However, there is not an automated tool available that will create the DDL and DML from OO specifications. This research develops a framework for combining these separate processes into a single step. Generating the relational database and the operations to manage data within the database from the formal software system specification. When combined with software system code generation, this research will allow the production of entire software systems to include the application code and persistent data management in a relational database.

Descriptors: \*Software engineering; \*Data management; \*Automatic programming; \*Object oriented programming; \*Relational data bases; Specifications; Theses; Prototypes; Information retrieval; Computer applications

Identifiers: Ddl(Database design language); Dml(Database manipulation language); Oo(Object oriented); Awsome(Afit wide spectrum object modeling environment); Code generation; Data languages; NTISDODXA

Section Headings: 62B (Computers, Control, and Information Theory--Computer Software)

9/5/27 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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1583070 NTIS Accession Number: TIB/B91-00666

Weiterentwicklung sprachorientierter Datenstrukturen in der Fuehrung und Simulation elektrischer Energieversorgungssysteme. (Further development of language-orientated data structures in the guidance and simulation of electric power supply systems)

(Diss. (Dr.-Ing))

Post, U.

Gesamthochschule Duisburg (Germany, F.R.). Fachbereich 9 - Elektrotechnik.

Corp. Source Codes: 076033005; 9202518

13 Nov 89 166p

Languages: German

Journal Announcement: GRAI9116

In German.

TIB: DR 9190. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC E14

Country of Publication: Germany, Federal Republic of

The work is based on the mains plans of 'Kraftwerke Laufenburg' public utility and on the rest of the mains control system installed there by the Siemens firm. Both the high voltage mains and (in extension of previous cases of application) the mean voltage mains were described in mains data language. In this sense, the following techniques were designed in the present dissertation and were implemented as a prototype: A universal query and instruction language for interaction with the data base. Automatic generation of a function keyboard including definition of the key function, calculating the layout, plotting and startup. This function keyboard can be used for the user-friendly formulation of the query and instruction language. The switch sequence is generated directly from interpretation of the mains topology. (orig./GL). (Copyright (c) 1991 by FIZ. Citation no. 91:000666.)

Descriptors: \*Public utilities; \*Power transmission; Simulation; Data processing; Mathematical models; Power transmission lines; Topology; Computer codes; Algorithms; Transformers; Switches; Data acquisition

Identifiers: \*Foreign technology; NTISTFFIZ

Section Headings: 97E (Energy--Electric Power Transmission)

9/5/28 (Item 3 from file: 6)

DIALOG(R)File 6:NTIS

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1418226 NTIS Accession Number: N89-13995/0

**Environment for Application Software Integration and Execution (EASIE),  
Version 1.0. Volume 2. Program Integration Guide**

Jones, K. H. ; Randall, D. P. ; Stallcup, S. S. ; Rowell, L. F.

National Aeronautics and Space Administration, Hampton, VA. Langley  
Research Center.

Corp. Source Codes: 019041001; ND210491

Report No.: NAS 1.15:100574; NASA-TM-100574

Dec 88 121p

Languages: English

Journal Announcement: GRAI8908; STAR2705

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email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road,  
Springfield, VA, 22161, USA.

NTIS Prices: PC A06/MF A01

Country of Publication: United States

The Environment for Application Software Integration and Execution,  
EASIE, provides a methodology and a set of software utility programs to  
ease the task of coordinating engineering design and analysis codes. EASIE  
was designed to meet the needs of conceptual design engineers that face the  
task of integrating many stand-alone engineering analysis programs. Using  
EASIE, programs are integrated through a relational data base management  
system. In volume 2, the use of a SYSTEM LIBRARY PROCESSOR is used to  
construct a DATA DICTIONARY describing all **relations** defined in the **data  
base**, and a TEMPLATE LIBRARY. A TEMPLATE is a description of all subsets  
of relations (including conditional selection criteria and sorting  
specifications) to be accessed as input or output for a given application.  
Together, these form the SYSTEM LIBRARY which is used to **automatically  
produce the data base schema**, FORTRAN subroutines to retrieve/store  
data from/to the data base, and instructions to a generic REVIEWER program  
providing review/modification of data for a given template. Automation of  
these functions eliminates much of the tedious, error prone work required  
by the usual approach to data base integration.

Descriptors: \*Computer aided design; \*Computer networks; \*Data base  
management systems; \*Software engineering; \*Systems integration; Computer  
programs; Data bases; Format; Libraries; Software tools; Systems analysis

Identifiers: NTISNASA

Section Headings: 62B (Computers, Control, and Information  
Theory--Computer Software)

9/5/29 (Item 4 from file: 6)

DIALOG(R)File 6:NTIS

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0719260 NTIS Accession Number: AD-A057 318/8/XAB

**Dynamic Techniques for Restructuring the Conceptual Schema - An  
Implementation**

(Master's thesis)

Beaver, E. N.

Wharton School Philadelphia Pa Dept of Decision Sciences

Corp. Source Codes: 408757

Report No.: 77-06-02

May 77 68p

Document Type: Thesis

Journal Announcement: GRAI7823

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(703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at  
5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: MF A01

Contract No.: N00014-75-C-0462

This work is a partial implementation of a dynamic restructuring  
processor. The total **dynamic** restructuring processor allows several

generations of database structure to coexist. Restructuring occurs incrementally as data is accessed in the database. Only restructuring of the conceptual schema (as defined by the ANSI/SPARC report) is considered on a CODASYL type database system called WAND. The implementation uses generation data structures which allow several **related** schemas and **databases** to coexist with proper restructuring translation done on the fly. The scope of this implementation includes an analysis of data requirements and general implementation strategy for the total processor and detailed design and programming of routines that provide run-time translation from one schema definition and **associated database** to a user using another but related schema definition. (Author)

Descriptors: \*Data bases; \*Computer files; Modification; Computer programming; On line systems; Data management; Theses

Identifiers: \*Data restructuring; File structures; Schemas; NTISDODXA

Section Headings: 62B (Computers, Control, and Information Theory--Computer Software)

9/5/30 (Item 1 from file: 144)  
DIALOG(R) File 144:Pascal  
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15414038 PASCAL No.: 02-0105112

**CASE tool support for temporal database design**

Conceptual modeling - ER 2001 : Yokohama, 27-30 November 2001

DETIENNE Virginie; HAINAUT Jean-Luc

KUNII Hideko S, ed; JAJODIA Sushil, ed; SLVBERG Arne, ed

Institut d'Informatique, University of Namur, rue Grandgagnage, 21, 5000 Namur, Belgium

International conference on conceptual modeling, 20 (Yokohama JPN)  
2001-11-27

Journal: Lecture notes in computer science, 2001, 2224 208-224

ISBN: 3-540-42866-6 ISSN: 0302-9743 Availability: INIST-16343;  
B54000097038370150

No. of Refs.: 16 ref.

Document Type: P (Serial); C (Conference Proceedings) ; A (Analytic)

Country of Publication: Germany

Language: English

Current RDBMS technology provides little support for building temporal databases. The paper describes a methodology and a CASE tool that is to help practitioners develop correct and efficient relational data structures. The designer builds a temporal ERA schema that is validated by the tool, then converted into a temporal relational **schema**. This schema can be transformed into a pure relational **schema** according to various optimization strategies. Finally, the tool **generates** an active SQL-92 **database** that **automatically** maintain entity and **relationship** states. In addition, it generates a temporal ODBC driver that encapsulates complex temporal operators such as projection, join and aggregation through a small subset of TSQL2. This API allows programmers to develop complex temporal applications as easily as non temporal ones.

22/5/1 (Item 1 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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01103847 E.I. Monthly No: EI8204028180 E.I. Yearly No: EI82025182

Title: **REQUIREMENTS AND DESIGN AID FOR RELATIONAL DATA BASES.**

Author: Wilson, Max L.

Corporate Source: IBM, San Jose, Calif, USA

Source: Proc Int Conf Software Eng 5th, San Diego, Calif, Mar 9-12 1981.  
Publ by IEEE Comput Soc Press (Cat n 81CH1627-9), Los Alamitos, Calif,  
1981. Also Available from ACM (Order n 592810), Baltimore, Md p 283-293

Publication Year: 1981

CODEN: PCSEDE

Language: ENGLISH

Journal Announcement: 8204

Abstract: A tool is described for defining data processing system requirements and for **automatically generating data base** designs from the requirements. The **generated** designs are specific to System R but the mapping **rules** are valid for the relational model in general and can be adapted to other data models as well. The requirements and design are stored in a System R data base, and cross-referenced with each other, and can be accessed and used for other purposes. The requirements are defined in terms of an organized common-sense semantic model and serve the function of the conceptual **schema** in the ANSI/SPARC three **schema** framework. The tool generates (synthesizes) relational designs that have no redundancy, no update anomalies, and are in 5th normal form. The requirements analysis and design generation procedures are illustrated with a case study. 18 refs.

Descriptors: \*DATA BASE SYSTEMS--\*Design

Classification Codes:

723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING)

22/5/2 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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01808698 ORDER NO: AADAA-I9938598

**A knowledge-based approach to the design and automated generation of clinical trial management systems**

Author: Shaban, Sami Fuad

Degree: Ph.D.

Year: 1999

Corporate Source/Institution: Medical University of South Carolina (0122)

Director: Zhen Zhang

Source: VOLUME 60/07-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 3401. 163 PAGES

Descriptors: ENGINEERING, BIOMEDICAL ; COMPUTER SCIENCE ; HEALTH SCIENCES, HEALTH CARE MANAGEMENT ; ARTIFICIAL INTELLIGENCE

Descriptor Codes: 0541; 0984; 0769; 0800

ISBN: 0-599-39882-5

A novel approach is presented in which a common core set of concepts and knowledge of the classic randomized multicenter clinical trial (randomized clinical trial or RCT), represented as statements of **rules**, is used to construct an abstract model to help the investigator characterize a specific RCT and then deploy a management system for it. This RCT model is developed along several dimensions which are clinical trial theory, clinical trial operations, and clinical trial storage. These dimensions enable the management of the trial and not only the data in the trial. Complete clinical trial management includes the operational flow of the trial, participant randomization, participant eligibility checking, trial event and status sequencing, participant event and status sequencing, schedule **rule** storage and modification, participant calendar generation, as well as participant data entry, storage, and retrieval. In this knowledge-based system, the abstract model representation is implemented using a relational database knowledge representation scheme. During the

trial design stage, the representation of the RCT model serves to guide the investigator through the process of defining the necessary parameters of the desired trial. With such user-provided trial specifications, the system will then utilize its knowledge-base to instantiate a complete software system for management of the trial, including collection of participant-specific data. This **automatically generated** system is web-based and relational **database** -driven to facilitate platform independence.

The abstract RCT model provides structural control and guidance as to how an instantiated trial is to be conducted and when particular tools are to be used in the trial's operation. A user-friendly environment allows clinical investigators to directly specify their own clinical trials and generate a software management system to support the launching and operation of the clinical trial as well as the distribution and collection of trial information. This **rule** -based approach to the design of clinical trial management systems is of great benefit to clinical trial investigators who now have a way of defining status and scheduling **rules** specifically for their study and have this **definition** directly reflected in the operation of the clinical trial management system.

22/5/3 (Item 2 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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1020348 ORDER NO: AAD88-17473

**DEVELOPMENT OF AN INCREMENTAL PARSER FOR LALR(1) LANGUAGES**

Author: JABER, ALI MOUSA

Degree: PH.D.

Year: 1988

Corporate Source/Institution: LEHIGH UNIVERSITY (0105)

Source: VOLUME 49/07-A OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 1606. 189 PAGES

Descriptors: INFORMATION SCIENCE; COMPUTER SCIENCE

Descriptor Codes: 0723; 0984

In this dissertation we chose to examine the feasibility of developing an incremental parser for LALR(1) languages. For this purpose, a fairly decent source language has been chosen and an incremental parser for this language has been actually written in PASCAL. We introduced the source language in terms of a production **rules** of the grammar and the syntax diagrams.

An LALR parsing algorithm presented by Alfered V. Aho, and Jeffrey D. Ullman is presented in this paper. An introduction about the LR parsing technique and a background on the theory of parsing are given. Analysis of the algorithm is shown. The algorithm consists of two parts, the parsing table, and the driver routine. The parsing **table** is **created dynamically** using pointers.

We described a strategy for developing an incremental parser by combining the parser and the screen editor. The method has been used to develop an incremental parser for the source language. The dissertation presents the basic data structure needed to develop the system. The system environment, the syntax tree management, and error handling are discussed. Basic **definitions** and notations were introduced in presenting the system editor. Both the text and syntax editor are discussed. Algorithms and examples implementing both editor commands are presented.

22/5/4 (Item 3 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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1012763 ORDER NO: AAD88-11041

**DEVELOPMENT OF A PROCEDURE FOR THE RAPID (4H) IDENTIFICATION OF NONFASTIDIOUS, GLUCOSE NONFERMENTING, GRAM-NEGATIVE BACTERIA**

Author: GODSEY, JAMES H.

Degree: PH.D

Year: 1987

Corporate Source/Institution: ST. JOHN'S UNIVERSITY (0192)  
Source: VOLUME 49/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 1015. 243 PAGES  
Descriptors: MICROBIOLOGY; BIostatISTICS  
Descriptor Codes: 0410; 0308

Nonfastidious, glucose nonfermenting Gram-negative bacteria (NFB) are often the cause of secondary opportunistic infections, especially with immunocompromised hosts. An identification **schema** for the rapid (4h) identification of NFB was developed. The basis for the test procedure is the detection of preformed bacterial enzymes using rapid conventional substrates (20), rapid carbon source alkalization substrates (9) and chromogenic enzyme substrates (15). The forty-four (44) substrates were selected from an original battery of one hundred thirty-five (135) tests using a computer-based program designed to determine the optimal minimal test set. Test solutions were vacuum dried into microtiter wells in a standard 96-well round-bottom microtiter tray, and stored at 2-8°C until use. Tests were performed by: (a) growing NFB test cultures at 30°C for up to 48h on Trypticase soy agar + 5% sheep blood (BAP), (b) emulsifying test colonies in 0.85% saline until the turbidity was approximately equal to a No. 3 McFarland barium sulfate; turbidity standard, (c) rehydrating each test well with 100 µl of test suspension, (d) incubating at 35-37°C for 4h, aerobically, (e) adding reagents as required, and (f) visually interpreting the results of all test reactions. Four hundred thirty-seven (437) isolates comprising fifty-eight (58) species and nondesignated groups of NFB were tested and the data utilized to **construct** a computerized **database**. Final bacterial identifications were performed **automatically** by the computer through the implementation of a Bayesian probability-based calculation. Results demonstrated 96.8% **correct** identification to the species/biotype level, 2.5% non-identification and 0.7% mid-identification of test isolates. Additionally, numerical taxonomic methods were applied to independently verify the taxonomic relationship established by the probability-based methodology in conjunction with the novel CSA and chromogenic substrates.

22/5/5 (Item 1 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2002 Institution of Electrical Engineers. All rts. reserv.

6489228 INSPEC Abstract Number: C2000-03-6160D-006

Title: **Constructing IDL views on relational databases**

Author(s): Jungfer, K.; Leser, U.; Rodriguez-Tome, P.

Author Affiliation: EMBL Outstation, The Eur. Bioinf. Inst., Cambridge, UK

Conference Title: Advanced Information Systems Engineering. 11th International Conference, CAISE'99. Proceedings (Lecture Notes in Computer Science Vol. 1626) p.255-68

Editor(s): Jarke, M.; Oberweis, A.

Publisher: Springer-Verlag, Berlin, Germany

Publication Date: 1999 Country of Publication: Germany xiv+478 pp.

ISBN: 3 540 66157 3 Material Identity Number: XX-1999-01679

Conference Title: Proceedings of CAISE 99: 11th International Conference on Advanced Information Systems Engineering

Conference Sponsor: Assoc. Inf. Syst.; Eur. Media Lab.; Gesellschaft fur Informatik; et al

Conference Date: 14-18 June 1999 Conference Location: Heidelberg, Germany

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: Data collections are distributed at many different sites and stored in numerous different database management systems. The industry standard CORBA can help to alleviate the technical problems of distribution and diverging data formats. In a CORBA environment, data structures can be represented using the Interface **Definition** Language IDL. Manually coding a server, which implements the IDL through calls to the underlying database, is tedious. On the other hand, it is in general impossible to automatically generate the CORBA server because the IDL is not only

determined by the **schema** of the database but also by other factors such as performance requirements. We therefore have developed a method for the **semi-automatic generation** of CORBA wrappers for relational **databases**. A declarative language is presented, which is used to describe the mapping between relations and IDL constructs. Using a set of such mapping **rules**, a CORBA server is generated together with the IDL. Additionally, the server is equipped with a query language based on the IDL. We have implemented a prototype of the system. (20 Refs)

Subfile: C

Descriptors: data structures; distributed object management; query languages; relational databases

Identifiers: IDL views; relational databases; data collections; database management systems; industry standard CORBA; CORBA environment; data structures; Interface **Definition** Language; CORBA server; performance requirements; semi-automatic generation; CORBA wrappers; declarative language; mapping **rules**; query language

Class Codes: C6160D (Relational databases); C4250 (Database theory); C6110J (Object-oriented programming); C6150N (Distributed systems software); C6120 (File organisation); C6140D (High level languages)

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22/5/6 (Item 2 from file: 2)

DIALOG(R) File 2:INSPEC

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5034242 INSPEC Abstract Number: C9510-6160B-006

**Title: RIMM: a reactive integration multidatabase model**

Author(s): Pissinou, N.; Raghavan, V.; Vanapipat, K.

Author Affiliation: Center for Adv. Comput. Studies, Southwestern Louisiana Univ., Lafayette, LA, USA

Journal: Informatica vol.19, no.2 p.177-93

Publication Date: May 1995 Country of Publication: Slovenia

CODEN: INFOFF ISSN: 0350-5596

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Traditional solutions to multidatabase systems mainly focus on resolving the structural and semantic incompatibility among the local databases to provide one or more frozen shared **schemas** to the users. However, the limitations of such approaches are evident in environments where changes might occur frequently. Specifically, it is impractical to assume that once set up, the global interface would remain valid and frozen in time. Over time the properties, behaviors, roles, and perhaps the identities of the objects in the local systems may change to reflect the evolution of the modeled universe. Additionally, the information requirements of the global users may change to reflect their needs. Such dynamism makes the functionalities of a multidatabase system obsolete. We provide a paradigm for the dynamic interaction between local and global systems, to resolve foreseeable conflicts that may occur over time, while supporting object consistency across databases and object relativism between local and global systems. Based on this paradigm, we develop a formal reactive integration multidatabase model (RIMM) that contains the expressiveness to represent the temporal changes, temporal conditions, and events in the real world. The model can be utilized as a framework to realize the multidatabase architecture that incorporates the event driven **production rules** to **automatically** react to anticipated changes of local **databases** and global users and **dynamically** reconfigure the global interfaces, so as to support interoperability over time. (43 Refs)

Subfile: C

Descriptors: deductive databases; distributed databases; open systems; temporal databases; temporal logic

Identifiers: RIMM; reactive integration multidatabase model; global interface; information requirements; global users; dynamic interaction; foreseeable conflicts; object consistency; object relativism; formal multidatabase model; temporal changes; temporal conditions; event driven **production rules**; interoperability

Class Codes: C6160B (Distributed databases); C4250 (Database theory); C5620 (Computer networks and techniques); C6160K (Deductive databases);



22/5/7 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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4810540 INSPEC Abstract Number: C9412-6160D-021

**Title:** ~~A~~ Prolog implementation of an entity-relationship based database management system

Author(s): Tok Wang Ling; Mong Li Lee

Author Affiliation: Nat. Univ. of Singapore, Singapore  
p.587-605

Editor(s): Teorey, T.J.

Publisher: Univ. Michigan, Ann Arbor, MI, USA

Publication Date: 1991 Country of Publication: USA 793 pp.

Conference Title: Proceedings of 1991 10th International Conference on Entity Relationship Approach

Conference Date: 23-25 Oct. 1991 Conference Location: San Mateo, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: A three level **schema** architecture entity-relationship based database management system was proposed by Ling (1987). We describe the use of logic as a tool for implementing the various ER database concepts. We describe and illustrate the approach that we adopt to represent an ER database internally in Prolog. Our approach is based on nested relations. In particular, we consider the storage of multivalued attributes, weak entity types anti relationship sets. Set operations are defined and conceptual-to-internal mapping **rules** to retrieve and update the **database** are **automatically generated**. We also present an algorithm to construct the external-to-conceptual mapping in Prolog **rules** given a user view. (13 Refs)

Subfile: C

Descriptors: entity-relationship modelling; formal logic; logic programming; PROLOG; relational databases

Identifiers: Prolog implementation; three level **schema** architecture entity-relationship based database management system; logic; nested relations; multivalued attribute storage; weak entity types; relationship sets; set operations; conceptual-to-internal mapping **rules**; retrieval; updating; algorithm; user view

Class Codes: C6160D (Relational DBMS); C6140D (High level languages); C4210 (Formal logic); C6110L (Logic programming)

22/5/8 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

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4454479 INSPEC Abstract Number: C9309-6160D-020

**Title:** Deriving production rules for incremental view maintenance

Author(s): Ceri, S.; Widom, J.

Author Affiliation: IBM Almaden Res. Center, San Jose, CA, USA

Conference Title: Proceedings of the Seventeenth International Conference on Very Large Data Bases p.577-89

Editor(s): Lohman, G.M.; Sernadas, A.; Camps, R.

Publisher: Morgan Kaufmann, San Mateo, CA, USA

Publication Date: 1991 Country of Publication: USA xii+596 pp.

Conference Sponsor: IEEE

Conference Date: 3-6 Sept. 1991 Conference Location: Barcelona, Spain

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: It is widely recognized that **production rules** in **database** systems can be used to **automatically** maintain derived data such as views. However, writing a **correct** set of **rules** for efficiently maintaining a given view can be a difficult and ad-hoc process. The authors provide a facility whereby a user defines a view as an SQL select



expression, from which the system automatically derives set-oriented production rules that maintain a materialization of that view. The maintenance rules are triggered by operations on the view's base tables. Generally, the rules perform incremental maintenance: the materialized view is modified according to the sets of changes made to the base tables, which are accessible through logical tables provided by the rule language. However, for some operations substantial recomputation may be required. The authors give algorithms that, based on key information, perform syntactic analysis on a view definition to determine when efficient maintenance is possible. (19 Refs)

Subfile: C

Descriptors: relational databases; very large databases

Identifiers: production rule derivation; incremental view maintenance; database systems; SQL select expression; set-oriented production rules; base tables; logical tables; rule language; recomputation; key information; syntactic analysis; efficient maintenance

Class Codes: C6160D (Relational DBMS)

22/5/9 (Item 5 from file: 2)

DIALOG(R) File 2:INSPEC

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04169646 INSPEC Abstract Number: C9207-6160-012

Title: Regenerating database technique for the real - time creation and maintenance of very large scale databases

Author(s): Griffin, M.P.; Mitchell, R.J.

Author Affiliation: Dept. of Cybernetics, Reading Univ., UK

Conference Title: IEE Colloquium on 'Using Virtual Worlds' (Digest No.093) p.8/1-3

Publisher: IEE, London, UK

Publication Date: 1992 Country of Publication: UK 40 pp.

Conference Sponsor: IEE

Conference Date: 15 April 1992 Conference Location: London, UK

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: Virtual reality systems have dealt with relatively sparse datasets for their operation in the representation of real world situations. This lack of detail in the definition and presentation of the modelled environment to the user, can constitute a serious loss in accurately bring across the correct impression of the situation. This deficiency can be put down to two reasons: the inability of modelling systems to conveniently capture large quantities of information about a real situation; and the inability of the target presentation systems to render large volumes of model information sufficiently quickly to cope with a real-time display requirement. A combination of techniques are used to generate model information automatically. In essence, a specification and a set of rules is supplied to the generation engine describing in loose detail the nature of the scene to be represented. These rules are then used in combination with various algorithms to produce the desired effect. The authors discuss the regeneration of database techniques for creation and maintenance of large models. (4 Refs)

Subfile: C

Descriptors: computer graphics; database management systems; real-time systems

Identifiers: database creation; data models; database maintenance; virtual reality systems; modelling systems; target presentation systems; real-time display; generation engine

Class Codes: C6160 (Database management systems (DBMS)); C6130B (Graphics techniques)

22/5/10 (Item 6 from file: 2)

DIALOG(R) File 2:INSPEC

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03047598 INSPEC Abstract Number: C88008539

Title: Object prototypes and database samples for expert database systems

Author(s): Nguyen, G.T.  
Author Affiliation: Lab. de Genie Info., Grenoble Univ.,  
St-Martin-D'Herès, France  
Conference Title: Proceedings from the First International Conference on  
Expert Database Systems p.47-58  
Editor(s): Kerschberg, L.  
Publisher: Benjamin/Cummings, Menlo Park, CA, USA  
Publication Date: 1987 Country of Publication: USA xi+501 pp.  
ISBN: 0 8053 3271 5  
Conference Sponsor: Univ. South Carolina  
Conference Date: 1-4 April 1986 Conference Location: Charleston, SC,  
USA  
Language: English Document Type: Conference Paper (PA)  
~~Treatment: Practical (P)~~

Abstract: A new method for database and knowledge base **integrity** control is presented which is based on object-oriented concepts and on logic programming. It uses a novel technique for semantic **integrity** enforcement in database applications, using the notions of object prototypes and database sample. A prototype is an incomplete object instance **created dynamically** in the **database**. It is representative of the family defined by an object declaration in the database scheme. A database sample is a set of prototypes. It is used for the certification, i.e. the control of the **correctness** of all user operations concerning the **definition** and the modification of the database **schema** and the data. The method implements a pessimistic approach to constraint enforcement in database systems. (14 Refs)

Subfile: C  
Descriptors: data structures; database management systems; expert systems ; logic programming  
Identifiers: database samples; expert database systems; knowledge base **integrity** control; object-oriented concepts; logic programming; semantic **integrity** ; object prototypes; object declaration; database scheme; certification; **correctness** ; user operations; constraint enforcement  
Class Codes: C6160 (Database management systems (DBMS)); C6170 (Expert systems); C7000 (Computer applications)

22/5/11 (Item 1 from file: 94)  
DIALOG(R) File 94:JICST-Eplus  
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04911561 JICST ACCESSION NUMBER: 01A0652819 FILE SEGMENT: JICST-E  
**Realizing a Dynamic Construction Mechanism of a Trigger Graph on Active Databases in Mobile Computing Environments.**

TERADA TSUTOMU (1); TSUKAMOTO MASAHIKO (2); NISHIO SHOJIRO (2)  
(1) Osaka Univ., Cybermedia Center, JPN; (2) Osaka Univ., Graduate School of Engineering, JPN

Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report (Institute of Electronics, Information and Communication Engineers), 2001, VOL.101,NO.71(MoMuC2001 12-24), PAGE.39-46, FIG.9, TBL.4, REF.9  
JOURNAL NUMBER: S0532BBG

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:654 681.3:061.68  
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal  
ARTICLE TYPE: Original paper  
MEDIA TYPE: Printed Publication

ABSTRACT: As a result of rapid development in wireless communications and computer hardware technologies, currently, we can access various information from anywhere using portable terminals with wireless communication capabilities. To support the integration and the use of data held by mobile hosts in this environment, we have proposed and implemented AMDS(Active Mobile Database System) as the kernel system for data and mobile host management in mobile environments. ECA **rules**, the behavior **definition** language of AMDS, have high description capability that enables users to define complicated behavior. However, the execution of ECA **rules** may fall into a chain of unexpected behaviors. In general, a directed graph called trigger graph is used for detecting illegal chains. Unfortunately, trigger graphs highly

depend on network topology, thus it is difficult to employ trigger graphs in mobile computing environments. Therefore, we have proposed a method that could reconstruct trigger graph dynamically. In this paper, we implement our method on AMDS and evaluate it by simulation studies. (author abst.)

DESCRIPTORS: internet; mobile communication; database; active control; event; **rule**; anomaly diagnosis; directed graph; algorithm; data update; computer simulation; reconstitution

BROADER DESCRIPTORS: computer network; communication network; information network; network; telecommunication; control; diagnosis; graph; renewal; computer application; utilization; simulation; constitution

CLASSIFICATION CODE(S): JC03000K; JD03030U

22/5/12 (Item 2 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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04664201 JICST ACCESSION NUMBER: 00A0839840 FILE SEGMENT: JICST-E

**A Method for Constructing Trigger Graph Dynamically on Active Database in Mobile Computing Environments.**

TERADA TSUTOMU (1); TSUKAMOTO MASAHICO (1); NISHIO SHOJIRO (2)

(1) Osakadai Saibamediaase; (2) Osaka Univ., Grad. Sch.

Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report (Institute of Electronics, Information and Communication Enginners), 2000, VOL.100,NO.227(DE2000 41-70), PAGE.47-54, FIG.6, TBL.4, REF.9

JOURNAL NUMBER: S0532BBG

UNIVERSAL DECIMAL CLASSIFICATION: 621.396.73 681.3:061.68

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: As a result of rapid development in wireless communications and computer hardware technologies, currently, we can access various information from anywhere using handy terminals with wireless communication capabilities. To support the integration and the use of data held by mobile hosts in this environment, we have proposed and implemented AMDS(Active Mobile Database System) as the kernel system for data and mobile host management in mobile environment. The behavior **definition** language of AMDS, **ECA rules**, have high description capability that enables users to define complicated behavior. However, the execution of **ECA rules** may fall into a chain of unexpected behaviors. In general, a directed graph called trigger graph is used for detecting chains. Unfortunately, trigger graph highly depends on network topology, thus it is difficult to employ trigger graph in mobile computing environment. In this paper, we propose a method that could reconstruct trigger graph dynamically to adapt to changes in network topology. By using this mechanism, mobile applications with **ECA rules** can be used more safely. (author abst.)

DESCRIPTORS: mobile communication; DBMS; computer network; undirected graph; radio transmission; hand-held type; terminal equipment; error detection; outlier

IDENTIFIERS: anomalous processing

BROADER DESCRIPTORS: telecommunication; computer application system; system; communication network; information network; network; graph; communication system; method; portable type; type; equipment; error control; control; detection; numerical value; statistic

CLASSIFICATION CODE(S): ND08030H; JD03030U

22/5/13 (Item 3 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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03484193 JICST ACCESSION NUMBER: 98A0166238 FILE SEGMENT: JICST-E

**Life-Cycle Monitoring System Using Intranet for Structures.**

OKADA KEIICHI (1); YAMAMOTO YUJI (1); MITA AKIRA (1)

(1) Shimizu Corp., Inst. of Technol.

Joho, Shisutemu, Riyo, Gijutsu Shinpojiumu Ronbunshu(Proceedings of the Symposium on Computer Technology of Information, Systems and Applications), 1997, VOL.20th, PAGE.1-6, FIG.6, TBL.1, REF.9

JOURNAL NUMBER: S0463BBF

UNIVERSAL DECIMAL CLASSIFICATION: 69.059

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

ABSTRACT: Research and development efforts that enable our society to reduce life-cycle cost of infrastructures and building structures are strongly needed for optimal use of our financial resources. Such reduction results in saving our energy and natural resources as well. Deterioration and aging, new materials, health monitoring, and renovation, are the most urgent research topics to be pursued. The importance of such research areas has been well recognized in the United States, where many infrastructure systems such as bridges and dams are now suffering severe deterioration so that huge investment is required to fix them. A health monitoring system is defined as a system that can diagnose the physical health of structural systems while they are in use. In this paper, this **definition** is expanded by use of a word "life-cycle monitoring" to include other stages of a life-cycle, namely, manufacturing, renovation and scrapping, and heredity-to-next-generations stages. Such a monitoring system may consist of sensors, computers and networks. In each field, significant advance has been made recently. However, integration and implementation of the monitoring system optimizing the performance of each element remains as the most difficult task. A monitoring system recently developed by us has a promising configuration. The server of the monitoring system utilizes the World Wide Web technology to communicate with client PCs. The data acquired by each sensory system are transferred to the server using a simple protocol called NFS. The modification of the programs installed in each sensory system can be minimal. Every engineer is now able to access any data with a common format which is compatible to common spread-sheet applications. The current and previous conditions can be easily checked through **dynamically generated graphs or tables**. (author abst.)

DESCRIPTORS: structure(construction); life cycle; life cycle cost; monitoring; sensor; network; computer network; protocol; internet

BROADER DESCRIPTORS: period(cycle); cost; instrumentation element; communication network; information network; **rule**

CLASSIFICATION CODE(S): RB01020X

22/5/14 (Item 4 from file: 94)

DIALOG(R) File 94:JICST-Eplus

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02029921 JICST ACCESSION NUMBER: 94A0356881 FILE SEGMENT: JICST-E

**Implementation of an ECA rule mechanism for instance-based OODBMS.**

TAJIMA KOICHI (1); SHIMOJO SHINJI (2); HARA SHIN'ICHIRO (3); TANAKA KATSUMI (3)

(1) Osaka Univ., Faculty of Engineering Science; (2) Osaka Univ., Computation Center; (3) Kobe Univ., Faculty of Engineering

Joho Shori Gakkai Kenkyu Hokoku, 1994, VOL.94, NO.30(DBS-97), PAGE.51-60, FIG.4, REF.8

JOURNAL NUMBER: Z0031BAO ISSN NO: 0919-6072

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:061.68

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: There are several approaches to support incremental database **schema** evolution in object-oriented database management systems(OODBMS). Among these approaches, instance-based one doesn't assume the existence of classes. Since a lot of schemaless data instances will be **created** in instance-based **databases**, these systems need an **automatic** management mechanism to classify these

instances by constraints. This paper discusses implementation issues regarding an ECA **rule** mechanism dedicated to Obase system, a prototype system of instance-based OODBMS. We also mention about the architecture of Obase system. (author abst.)

DESCRIPTORS: object-oriented database; database **schema** ; constraint condition(restriction); DBMS; data model

BROADER DESCRIPTORS: database; condition; computer application system; system; model

CLASSIFICATION CODE(S): JD03030U

22/5/15 (Item 1 from file: 144)

DIALOG(R)File 144:Pascal

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15575760 PASCAL No.: 02-0276323

**MDB: a database system utilizing automatic construction of modules and STAR-derived universal language**

MIGLIAVACCA Eugenia; ADZHUBEI Alexei A; PEITSCH Manuel C

GlaxoSmithKline, R & D, 10 Route de l'Aéroport, 1215, Geneva, Switzerland

International conference on the Bioinformatics of Genome Regulation and Structure (BGRS-2000), 2 (Novosibirsk RUS) 2000-08

Journal: Bioinformatics : (Oxford. Print), 2001, 17 (11) 1047-1052

ISSN: 1367-4803 Availability: INIST-21331

No. of Refs.: 10 ref.

Document Type: P (Serial); C (Conference Proceedings) ; A (Analytic)

Country of Publication: United Kingdom

Language: English

Motivation: The value of information greatly increases if stored in databases. The objective was to construct a multi-purpose database system primarily designed to store and provide access to three-dimensional structures of biological molecules including theoretical models. Results: A dictionary defining data format and structure for three-dimensional models of biological molecules (MDB dictionary) was developed. The dictionary was written using universal, standardized data description language. This language can be applied to describe data with no restrictions on their origin or type, including meta-data. Thus both the data **definitions** (format) and database descriptions are created using the uniform language and processed with universal software. A database and data design technique that allowed use of dictionaries to **automatically construct** relational **databases** was developed. This technique was employed to construct the MDB database system. Data design developed and applied in the MDB project makes it possible to carry out data curation utilizing the database engine to identify errors. It also allows storage and query of data at different levels of consistency with the standard format specifications, i.e. both the **correctly** formatted data, and data that requires further curation.

English Descriptors: DNA; Protein; Molecular structure; Three dimensional structure; Database; Data description language; Data structure; Data processing; Data storage

Broad Descriptors: Bioinformatics; Bioinformatique; Bioinformatica

French Descriptors: DNA; Proteine; Structure moleculaire; Structure 3 dimensions; Base donnee; Langage description donnee; Structure donnee; Traitement donnee; Stockage donnee; MDB

Classification Codes: 002A01B

22/5/16 (Item 2 from file: 144)

DIALOG(R)File 144:Pascal

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14353708 PASCAL No.: 00-0004920

**Solving the problem of semantic heterogeneity in defining mediator update translators**

Conceptual modeling - ER'99 : Paris, 15-18 November 1999

PONTE VIDAL V M; FARIAS LOSCIO B  
AKOKA Jacky, ed; BOUZEGHOUB Mokrane, ed; COMYN-WATTIAU Isabelle, ed;  
METAIS Elisabeth, ed  
Federal University of Ceara - Computer Science Department, Campus do Pici  
Bloco: 910 -, 60455-760 Fortaleza-CE , Brazil  
International conference on conceptual modeling, 18 (Paris FRA)  
1999-11-15

Journal: Lecture notes in computer science, 1999, 1728 293-308  
ISBN: 3-540-66686-9 ISSN: 0302-9743 Availability: INIST-16343;  
354000080103900200

No. of Refs.: 17 ref.  
Document Type: P (Serial); C (Conference Proceedings) ; A (Analytic)  
Country of Publication: Germany  
Language: English

Mediator is a facility that supports an integrated view over multiple information sources, and allows for queries to be made against the integrated view. In this paper, we extend the mediator architecture to support updates against the integrated view. Updates expressed against the mediator's integrated view need to be translated into updates of the underlying local databases. We developed algorithms to generate translators for the basic types of mediator update operations. The novel aspects of our algorithms are that the translators are generated based on the correspondence assertions that formally specify the relationships between the mediator **schema** and the local databases **schemas**. Our formalism allows us to identify, precisely, the situations where the ambiguities can be solved at mediator **definition** time and the criteria for choosing the most appropriate translator. In this paper, we show that, by using our formalism, it is possible to define rigorously the **correct** translation for mediator update operations for cases where concepts in the mediator **schema** are represented differently in the local databases **schemas**.

English Descriptors: Problem solving; Information source; Mediator;  
**Database** ; Translator; Heterogeneity; Updating; Architecture; Semantics;  
**Automatic generation**

French Descriptors: Resolution probleme; Source information; Mediateur;  
Base donnee; Traducteur; Heterogeneite; Mise a jour; Architecture;  
Semantique; Generation automatique

Classification Codes: 001D02B07D

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22/5/17 (Item 3 from file: 144)  
DIALOG(R)File 144:Pascal  
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14353250 PASCAL No.: 00-0004402  
**Design support for database federations**  
**Conceptual modeling - ER'99 : Paris, 15-18 November 1999**  
SCHWARZ K; SCHMITT I; TUERKER C; HOEDING M; HILDEBRANDT E; BALKO S;  
CONRAD S; SAAKE G  
AKOKA Jacky, ed; BOUZEGHOUB Mokrane, ed; COMYN-WATTIAU Isabelle, ed;  
METAIS Elisabeth, ed  
Otto-von-Guericke-Universitaet Magdeburg, Institut fuer Technische und  
Betriebliche Informationssysteme, Postfach 4120, 39016 Magdeburg, Germany  
International conference on conceptual modeling, 18 (Paris FRA)  
1999-11-15  
Journal: Lecture notes in computer science, 1999, 1728 445-459  
ISBN: 3-540-66686-9 ISSN: 0302-9743 Availability: INIST-16343;  
354000080103900300  
No. of Refs.: 29 ref.  
Document Type: P (Serial); C (Conference Proceedings) ; A (Analytic)  
Country of Publication: Germany  
Language: English  
Federated database systems provide a homogeneous interface to possibly heterogeneous local database systems. This homogeneous interface consists

of a global **schema** which is the result of a logical integration of the schemata of the corresponding local database systems and file systems. In this paper, we sketch the integration process and a set of tools for supporting the design process. Besides the classical database **schema** integration, the design process for federated information systems requires the integration of other aspects like **integrity rules**, authorization policies and transactional processes. This paper reports on an integrated approach to tool support of several of these integration aspects. The different integration facets are linked via the database integration method GIM allowing a high degree of automatic integration steps.

English Descriptors: **Automatic generation** ; **Database** ; Information system; File structure; Semantics; Scheme; Design process; **Integrity constraint**

French Descriptors: Generation automatique; Base donnee; Systeme information; Structure fichier; Semantique; **Schema** ; Federated database system; Processus conception; Contrainte integrite

Classification Codes: 001D02B07D

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22/5/18 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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04956554 Genuine Article#: UV205 Number of References: 23

**Title: OBJECTIVE-DRIVEN MONITORING FOR BROAD-BAND NETWORKS**

Author(s): MAZUMDAR S; LAZAR AA

Corporate Source: AT&T BELL LABS,101 CRAWFORDS CORNER RD/HOLMDEL//NJ/07733;  
COLUMBIA UNIV,DEPT ELECT ENGN/NEW YORK//NY/10027; COLUMBIA UNIV,CTR  
TELECOMMUN RES/NEW YORK//NY/10027

Journal: IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, 1996, V8, N3  
(JUN), P391-402

ISSN: 1041-4347

Language: ENGLISH Document Type: ARTICLE

Geographic Location: USA

Subfile: SciSearch; CC ENGI--Current Contents, Engineering, Technology & Applied Sciences

Journal Subject Category: ENGINEERING, ELECTRICAL & ELECTRONIC; COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Abstract: An approach to sensor configuration, installation, and activation for real-time monitoring of broadband networks for managing its performance is presented. An objective-driven measurement strategy for **establishing** the **dynamic** and statistical **databases** of the network is described. Objective driven monitoring allows the activation of sensors for data collection and abstraction based on a set of objectives. The objectives are derived from the quality of service requirements for real-time traffic control and operator submitted queries. The methodology of objective-driven monitoring for selective activation of sensors is implemented as a set of **rules** in the knowledge base of the monitor.

26/5/1 (Item 1 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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05712810 E.I. No: EIP00115417989

Title: Automatic navigation scheme for XML documents through object-relational repository

Author: Tseng, Frank S.C.; Hwung, Wen-Jong; Cheng, Fei-Fei

Corporate Source: Natl Kaohsiung First Univ of Science and Technology, Kaohsiung, Taiwan

Conference Title: 4th International Conference on Knowledge-Based Intelligent Engineering Systems and Allied Technologies (KES'2000)

Conference Location: Brighton, UK Conference Date: 20000830-20000901

E.I. Conference No.: 57596

Source: International Conference on Knowledge-Based Intelligent Electronic Systems, Proceedings, KES v 1 2000. p 428-431

Publication Year: 2000

CODEN: 002678

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical)

Journal Announcement: 0101W1

Abstract: XML (eXtensible Markup Language), a simplified version of SGML (Standard Generalized Markup Language), is designed to enable electronic text interchange in the Internet. Most current approach store XML documents in file systems or in relational database systems. However, the nature and the design of file system or relational database **schema** cannot fit with XML document structure very well. In this paper, we propose an automatic navigation scheme to store and retrieve XML documents through object-relational databases. We have designed a system architecture, called XMG (XML Meta- **Generator** ), which, after reading a specific DTD, **automatically generates** the corresponding object-relational **database schema** (OR- **Schema** ), a DI-Decomposer and a DI-Reconstructor. These modules make XML documents be automatically decomposed into and reconstructed from object-relational databases in a seamless manner. Moreover, documents stored in the object-relational databases can be managed and inquired more easily than it could be in file systems or relational databases. Useful applications on various documents can also be easily built, such as digital libraries, data warehousing, and data or text mining systems. (Author abstract) 22 Refs.

Descriptors: \*Text processing; SGML; Information analysis; Relational database systems

Identifiers: Extensible markup language (XML); Electronic text interchange; Object-relational databases; Document type **definitions** (DTD)

Classification Codes:

723.5 (Computer Applications); 723.2 (Data Processing); 902.2 (Codes & Standards); 903.1 (Information Sources & Analysis); 723.3 (Database Systems)

~~723~~ (Computer Software); 902 (Engineering Graphics & Standards); 903 (Information Science)

72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING)

26/5/2 (Item 2 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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00645907 E.I. Monthly No: EI7708055726 E.I. Yearly No: EI77020727

Title: DYNAMIC **RESTRUCTURING OF** DATABASES WITH GENERATION **DATA STRUCTURES**.

Author: Gerritsen, Rob; Morgan, Howard L.

Corporate Source: Univ of Pa, Philadelphia

Source: Proc Annu Conf ACM Houston, Tex, Oct 20-22 1976. Publ by ACM, New York, NY, 1976 p 281-286

Publication Year: 1976

CODEN: PACMDC

Language: ENGLISH

Journal Announcement: 7708

Abstract: Most logical database restructuring schemes require a complete



pass through the database for reformation. The authors approach is to leave the database in situ and to permit a mixture (several generations) of structures to co-exist. Each generation of structure is described in a Generation Data Structure **Schema**, which has a generic structure of its own. A Restructuring Data **Definition** Language is proposed for describing the evolution from one **schema** to the next. Steps toward implementation are discussed. 14 refs.

Descriptors: \*DATA BASE SYSTEMS; DATA PROCESSING--Data Structures

Classification Codes:

723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING)

26/5/3 (Item 1 from file: 202)

DIALOG(R)File 202:Information Science Abs.

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2004774

**Database uniformization problem. A SEED/DAVID interface.**

Book Title: Report No: AD-A156955

Author(s): Aulino, J

(166 pages)

Publication Date: 1985

Publisher: Air Force Institute of Technology

Language: English

Place of Publication: United States

Document Type: Book Chapter

Record Type: Abstract

Journal Announcement: 2000

The database uniformization problem deals with creating a common user interface for a collection of heterogeneous databases. The DAVID (Distributed Access View Integrated Database) System is a database management system which is being implemented by the National Aeronautics and Space Administration to create such an interface. This paper deals with the implementation of certain routines used by the DAVID System to interface with SEED, a Codasyl database management system. Chapter 1 gives the particulars on this thesis. This includes examples of a DBL Data Description Language (DDL) **Definition** and a DBL **Schema**. This chapter defines certain terms used through the thesis, explains in greater detail the primitive operations needed to implement the DAVID/SEED interface, and describes certain programming tools used. The remainder of the thesis deals with specifics of the implementation. Chapter 2 details implementation of the **Schema** conversion. Chapter 3 details the implementation of the **automatic generation** code used in translating queries of the **database**. Chapter 4 details the implementation of the **automatic generation** of code used on translating transactions on the database

Descriptors: Computer programs; Database management systems; Databases;

Man-machine interfacing

Classification Codes and Description: 6.02 (Bibliographic Search Services, Databases); 3.04 (Meetings, Personal Interchange); 6.05 (Physical Sciences and Engineering)

Main Heading: Information Systems and Applications; Information Generation and Promulgation; Information Systems and Applications

26/5/4 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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6965807 INSPEC Abstract Number: C2001-08-6160B-014

**Title: The network is the database: data management for highly distributed systems**

Author(s): Navas, J.C.; Wynblatt, M.

Author Affiliation: Siemens Technol.-to-Bus. Center, Berkeley, CA, USA

Journal: SIGMOD Record Conference Title: SIGMOD Rec. (USA) vol.30, no.2 p.544-51

Publisher: ACM,  
Publication Date: June 2001 Country of Publication: USA  
CODEN: SRECD8 ISSN: 0163-5808  
SICI: 0163-5808(200106)30:2L:544:NDDM;1-S  
Material Identity Number: A660-2001-003  
Conference Title: 2001 ACM SIGMOD International Conference on Management of Data

Conference Date: 21-24 May 2001 Conference Location: Santa Barbara, CA, USA

Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Practical (P)

Abstract: The paper describes the methodology and implementation of a data management system for highly distributed systems, which was built to solve the scalability and reliability problems faced in a wide area postal logistics application developed at Siemens. The core of the approach is to borrow from Internet routing protocols, and their proven scalability and robustness, to build a network-embedded **dynamic database** index, and to augment **schema definition** to optimize the use of this index. The system was developed with an eye toward future applications in the area of sensor networks. (9 Refs)

Subfile: C

Descriptors: database indexing; distributed databases; Internet; postal services; query processing; wide area networks

Identifiers: data management; highly distributed systems; reliability problems; wide area postal logistics application; Internet routing protocols; scalability; network-embedded dynamic database index; **schema definition**; future applications; sensor networks

Class Codes: C6160B (Distributed databases); C4250 (Database theory); C6120 (File organisation); C5620W (Other computer networks); C6150N (Distributed systems software); C7210N (Information networks); C7185 (Administration of other service industries)

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26/5/5 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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6636414 INSPEC Abstract Number: C2000-08-6150E-004

Title: **A generic load/extract utility for data transfer between XML documents and relational databases**

Author(s): Bourret, R.; Bornhovd, C.; Buchmann, A.

Author Affiliation: Dept. of Comput. Sci., Tech. Hochschule Darmstadt, Germany

Conference Title: Proceedings Second International Workshop on Advanced Issues of E-Commerce and Web-Based Information Systems. WECWIS 2000 p. 134-43

Editor(s): Yu, P.S.

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 2000 Country of Publication: USA ix+255 pp.

ISBN: 0 7695 0610 0 Material Identity Number: XX-2000-01455

U.S. Copyright Clearance Center Code: 0 7695 0610 0/2000/\$10.00

Conference Title: Proceedings Second International Workshop on Advanced Issues of E-Commerce and Web-Based Information Systems. WECWIS 2000

Conference Sponsor: Univ. California, Irvine; Univ. Virginia; IEEE Comput. Soc. Tech. Committee on Real-Time Syst.; IEEE Comput. Soc. Tech. Committee on Internet; IBM Inst. Adv. Commerce; Univ. Hong Kong

Conference Date: 8-9 June 2000 Conference Location: Milpitas, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: XML is rapidly gaining momentum in e-commerce and Internet-based information exchange, where its simplicity and custom-defined tags make it usable as a semantics-preserving data exchange format. However, to realize this potential it is necessary to be able to extract structured data from XML documents and store it in a database, as well as to generate XML documents from data extracted from a database. Although many DBMS vendors are scrambling to extend their products to

handle XML, there is a need for a lightweight, DBMS- and platform-independent load/extract utility as well. In this paper, we describe such a utility that solves the following problems: (1) loading data from XML documents into relational tables with a known **schema**, (2) creating XML documents according to a known document type **definition** (DTD) from data extracted from a **database**, (3) **generating** relational **schemas** from XML DTDs for on-the-fly storage of XML documents, and (4) generating XML DTDs from relational **schemas** for on-the-fly extraction of relational data. We introduce a language to describe a mapping between an existing XML DTD and an existing relational **schema** and discuss some of the interesting issues arising from such a mapping. (29 Refs)

Subfile: C

Descriptors: electronic commerce; electronic data interchange; hypermedia markup languages; Internet; relational databases; utility programs

Identifiers: generic load/extract utility; data transfer; XML documents; relational databases; electronic commerce; Internet-based information exchange; custom-defined tags; semantics-preserving data exchange format; structured data extraction; DBMS-independent utility; platform-independent utility; data loading; relational tables; relational **schemas**; document type **definition**; on-the-fly storage; mapping language

Class Codes: C6150E (General utility programs); C6130D (Document processing techniques); C6130M (Multimedia); C6140D (High level languages); C6130E (Data interchange); C6160D (Relational databases)

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26/5/6 (Item 3 from file: 2)

DIALOG(R) File 2:INSPEC

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5828748 INSPEC Abstract Number: C9803-6160B-016

**Title: A generative approach to database federation**

Author(s): Hohenstein, U.; Plessner, V.

Author Affiliation: Corp. Res. & Dev., Siemens AG, Munich, Germany

Conference Title: Conceptual Modeling - ER '97. 16th International Conference on Conceptual Modeling. Proceedings p.422-35

Editor(s): Embley, D.W.; Goldstein, R.C.

Publisher: Springer-Verlag, Berlin, Germany

Publication Date: 1997 Country of Publication: Germany xv+477 pp.

ISBN: 3 540 63699 4 Material Identity Number: XX97-02732

Conference Title: Conceptual Modeling - ER '97. 16th International Conference on Conceptual Modeling. Proceedings

Conference Date: 3-5 Nov. 1997 Conference Location: Los Angeles, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: Introduces a comprehensive, specification-based approach to database federation, supporting an integrated, ODMG-93-conforming access to object-oriented and relational databases. The central point is a set of intuitive specification languages. These languages allow the **definition** of ODMG-93 views of existing databases, and the construction of system-spanning federated views of them. Given concrete specifications defining those views, ODMG **schemas** are **generated automatically** by a **generative** approach. Heterogeneous **databases** can be plugged into a federation, without implementing adapters, for any **schema** again and again. The generative nature provides flexibility w.r.t. **schema** modification of the component databases, as new views are implemented automatically. Furthermore, the approach is one of the first to support the seamless manipulation of federated data in C++. (38 Refs)

Subfile: C

Descriptors: application generators; distributed databases; formal specification; object-oriented databases; relational databases; specification languages

Identifiers: database federation; generative approach; specification-based approach; ODMG-93 view **definition**; object-oriented databases; relational databases; specification languages; system-spanning federated views; automatic ODMG **schema** generation; heterogeneous databases; flexibility; **schema** modification; federated data manipulation;

C++ language

Class Codes: C6160B (Distributed databases); C6160J (Object-oriented databases); C6160D (Relational databases); C6115 (Programming support); C6110F (Formal methods); C6140D (High level languages)  
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26/5/7 (Item 4 from file: 2)

DIALOG(R) File 2:INSPEC

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5155103 INSPEC Abstract Number: C9602-6160D-013

Title: SQL

Author(s): Finke, J.

Author Affiliation: Rensselaer Polytech. Inst., Troy, NY, USA

Conference Title: Proceedings of the Ninth Systems Administration Conference (LISA IX) p.133-8.

Publisher: USENIX Assoc, Berkeley, CA, USA

Publication Date: 1995 Country of Publication: USA vi+246 pp.

Material Identity Number: XX95-02614

Conference Title: Proceedings of 9th USENIX Systems Administration Conference

Conference Date: 17-22 Sept. 1995 Conference Location: Monterey, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: The ongoing development of our relational database based system administration package, Simon, requires frequent reference to documentation that describes the existing database tables. To this end we have written a program that uses descriptive information stored in the database itself, to generate a WWW tree that documents each table in HTML, as well as an index page to tie the whole package together. This has made looking up table definitions simply a click or two away and has proven to be very useful. These HTML pages are now also being included in some of our program documentation of the Simon system. (2 Refs)

Subfile: C

Descriptors: hypermedia; relational databases; software packages; SQL; system documentation; table lookup; Unix

Identifiers: automatic HTML database schema generation ; SQL; relational database based system administration package; documentation; database tables; descriptive information; WWW tree; table documentation; HTML; index page; table definition look up; Simon system

Class Codes: C6160D (Relational databases); C6140D (High level languages); C6130 (Data handling techniques); C6110 (Systems analysis and programming); C6150J (Operating systems); C6130M (Multimedia); C6130D (Document processing techniques)

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26/5/8 (Item 5 from file: 2)

DIALOG(R) File 2:INSPEC

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02442238 INSPEC Abstract Number: C85024405

Title: GDOC: a tool for computerized design and documentation of database systems

Author(s): Ferrara, F.M.; Batini, C.

Author Affiliation: GESI, Rome, Italy

Journal: Data Base vol.15, no.4 p.15-20

Publication Date: Summer 1984 Country of Publication: USA

CODEN: DTBSAN ISSN: 0095-0033

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Release 2.1 of GDOC, a tool for computer-aided design of database applications, is described. GDOC provides for the interactive specification of the conceptual schema of the application, expressed in an enriched Entity-Relationship Model, and produces the relevant documentation by means of traditional printouts, as well as allowing a

graphical **definition** of the conceptual **schema** . Moreover, GDOC **automatically generates** the physical **database** and the operating programs for accessing the concepts in the **schema** in a dBASE II environment. Experiences of use of GDOC are discussed and further research directions are outlined. (5 Refs)

Subfile: C

Descriptors: database management systems; software tools; systems analysis

Identifiers: documentation; database systems; GDOC; computer-aided design ; interactive specification; conceptual **schema** ; Entity-Relationship Model ; printouts; graphical **definition** ; operating programs; dBASE II environment; research directions

Class Codes: C6110 (Systems analysis and programming); C6115 (Programming support); C6160 (Database management systems (DBMS))

26/5/9 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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04929172 JICST ACCESSION NUMBER: 01A0777355 FILE SEGMENT: JICST-E

**An Information System using schema definition of XML.**

FUJITA MASANORI (1); KITAGAWA FUMIO (1)

(1) Okayama Univ. of Sci.

Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report (Institute of Electronics, Information and Communication Engineers), 2001, VOL.101,NO.110(DE2001 1-15), PAGE.25-31, FIG.14, REF.4

JOURNAL NUMBER: S0532BBG

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:061.68 002.2

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: On a sysytem which requires defining data structure for each users, it needs to consider how to make **database** and how to **construct** user interface **automatically** . In this paper, we propose a system which is able to define a **schema** using XML, and the system can produce tables for storing data and GUI for data entry or data query. At first, we show a XML editor for defining data structure. After defining XML dotument of data structure, the system can produce tables from the XML document, and slso can produce user interfaces automatically for data entry and data query. (author abst.)

DESCRIPTORS: word processing; data structure; database **schema** ; user interface; relational data base; data management; tree structure; hierarchical structure; data retrieval; table(chart); information system; machine readable resource

IDENTIFIERS: field investigation

BROADER DESCRIPTORS: computer application; utilization; information processing; treatment; structure; interface; database; management; fact retrieval; information retrieval; retrieval; diagram and table; computer application system; system; nonbook material; resource(document)

CLASSIFICATION CODE(S): JD03030U; AC03000B

26/5/10 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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1193434 NTIS Accession Number: AD-A156 955/7

**Database Uniformization Problem: A SEED/DAVID Interface**  
(Master's thesis)

Aulino, J.

Air Force Inst. of Tech., Wright-Patterson AFB, OH.

Corp. Source Codes: 000805000; 012200

Report No.: AFIT/CI/NR-85-44T

1985 166p

Languages: English Document Type: Thesis

Journal Announcement: GRAI8522

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A08/MF A01

Country of Publication: United States

The database uniformization problem deals with creating a common user interface for a collection of heterogeneous databases. The DAVID (Distributed Access View Integrated Database) System is a database management system which is being implemented by the National Aeronautics and Space Administration to create such an interface. This paper deals with the implementation of certain routines used by the DAVID System to interface with SEED, a Codasyl database management system. Chapter 1 gives the particulars on this thesis. This includes examples of a DBL Data Description Language (DDL) **Definition** and a DBL **Schema**. This chapter defines certain terms used through the thesis, explains in greater detail the primitive operations needed to implement the DAVID/SEED interface, and describes certain programming tools used. The remainder of the thesis deals with specifics of the implementation. Chapter 2 details implementation of the **Schema** conversion. Chapter 3 details the implementation of the **automatic generation** code used in translating queries of the **database**. Chapter 4 details the implementation of the **automatic generation** of code used on translating transactions on the database.

Descriptors: \*Data bases; \*Computer programming; Interfaces; Standardization; Installation; Heterogeneity; Dictionaries; Data management; Interrogation; Theses; User needs; Tools

Identifiers: \*Data base management systems; \*Distributed Access View Integrated Data base; \*Software tools; CODASYL data base; SEED Data base; David data base; NTISDODXA

Section Headings: 62B (Computers, Control, and Information Theory--Computer Software)

26/5/11 (Item 1 from file: 95)

DIALOG(R) File 95:TEME-Technology & Management

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00790358 E94086007046

Automatic **class and method** generation for **object-oriented** databases (Automatische Klassen- und Methodengenerierung fuer objektorientierte Datenbanken)

Elmasri, R; James, S; Kouramajian, V

Univ. of Texas, Arlington, USA; Rice Univ., Houston, USA

DOOD 93, Deductive and Object-Oriented Databases, 3rd Int. Conf., Proc., Phoenix, USA, Dec 6-8, 1993, 1993

Document type: Conference paper Language: English

Record type: Abstract

ISBN: 3-540-57530-8; 0-387-57530-8

#### ABSTRACT:

Several approaches have been taken to incorporate integrity constraints into the class **definitions** of an object-oriented (OO) **database**. In this work, the authors **generate** constraint checks **automatically** in the basic methods of a class **definition**. The constraints are derived from the Extended Entity-Relationship (EER) model, and incorporated into the object-oriented classes. The work investigates the issues in designing an OO database by mapping an EER **schema** into an object model. The authors define a number of basic methods for each class, and automatically generate default class **definitions** including both attributes and basic methods. In their approach, the constraints are incorporated into the code of the basic methods for each object class.

DESCRIPTORS: DATABASE THEORY; RELATIONAL DATABASES; OBJECT ORIENTED PROGRAMMING; DATA MODELS; SEMANTICS; ALGORITHM; COMPARISON OF SYSTEMS; OBJECT ORIENTED DATABASES

IDENTIFIERS: ENTITY RELATIONSHIP MODELL; OBJEKTMODELL;

INTEGRITAETSBEDINGUNG; objektorientierte Datenbank; Klassengenerierung

26/5/12 (Item 2 from file: 95)  
DIALOG(R)File 95:TEME-Technology & Management  
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00731506 E93124065010

Automatic **view** **schema** generation in **object-oriented** databases  
(Automatische Ansichtsschema-Generierung in objektorientierten Datenbanken)

Rundensteiner, EA; Lubomir Bic

Univ. of California, Irvine, USA

1992

Document type: Report Language: English

Record type: Abstract

ABSTRACT:

An object-oriented data **schema** is a complex structure of classes interrelated via generalization and property decomposition relationships. The authors define an object-oriented view to be a virtual **schema** graph with possibly restructured generalization and decomposition hierarchies - rather than just one individual virtual class as proposed in the literature. In this paper, they propose a methodology, called MultiView, for supporting multiple such view schemata. MultiView is anchored on the following complementary ideas: (a) the view definer derives virtual classes and then integrates them into one consistent global **schema** graph and (b) the view definer specifies arbitrarily complex view schemata on this augmented global **schema**. The focus of this paper is, however, on the second, less explored, issue. This part of the view **definition** is performed using the following two steps: (1) view class selection and (2) view **schema** graph generation. For the first, the authors have developed a view **definition** language that can be used by the view definer to specify the selection of the desired view classes from the global **schema**. For the second, they have developed two algorithms that automatically augment the set of selected view classes to generate a complete, minimal and consistent view class generalization hierarchy. The first algorithm has linear complexity but it assumes that the global **schema** graph is a tree. The second algorithm overcomes this restricting assumption and thus allows for multiple inheritance, but it does so at the cost of a higher complexity.

File 347:JAPIO Oct 1976-2002/Jul(Updated 021104)

(c) 2002 JPO & JAPIO

File 350:Derwent WPIX 1963-2002/UD,UM &UP=200276

(c) 2002 Thomson Derwent

File 348:EUROPEAN PATENTS 1978-2002/Nov W03

(c) 2002 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20021121,UT=20021114

(c) 2002 WIPO/Univentio

Set	Items	Description
S1	6	AU='WEISSMANN C'
S2	10	AU='WALSH G' OR AU='WALSH G V'
S3	4	AU='WALSH GREG':AU='WALSH GREGORY VINCENT'
S4	6	AU='WEGBREIT E':AU='WEGBREIT ELIOT LEONARD'
S5	90	AU='JAIN A' OR AU='JAIN A S'
S6	10	PA='E PIPHANY INC':PA='E PIPHANY INC (EPIP-N)'
S7	3	PA='EPIPANY':PA='EPIPANY INC (EPIP-N)'
S8	12	S1:S7 AND DATABASE? ?
S9	6	S8 AND DEFINITION? ?



9/5/1 (Item 1 from file: 350)  
DIALOG(R)File -350:Derwent WPIX  
(c) 2002 Thomson Derwent. All rts. reserv.

014050568 \*\*Image available\*\*  
WPI Acc No: 2001-534781/200159  
XRPX Acc No: N01-396991

**Datamart generating method involves generating and executing set of commands to generate set of tables, which also includes commands for accessing and manipulating the tables**

Patent Assignee: **E.PIPHANY INC** (EPIP-N  
Inventor: SLATER L R; **WALSH G V** ; WEISSMAN C D  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6212524	B1	20010403	US 9873752	A	19980506	200159 B

Priority Applications (No Type Date): US 9873752 A 19980506

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6212524	B1		78	G06F-017/30	

Abstract (Basic):. US 6212524 B1

NOVELTY - The method involves accessing description of schema which defines relationship between set of tables. The description also includes a **definition** of fact table, one or more dimensions, and set of relations between fact table and dimensions corresponding to star schema. A set of command which are generated and executed to generate set of tables, also includes commands for accessing and manipulating tables.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) Data extracting method;
- (b) Data mart system;
- (c) Recording medium

USE - For creating **database** and for loading and accessing data in the **database**.

ADVANTAGE - By this method, the amount of work required to create and populate the datamart, is reduced. Automatically generates a set of commands to convert data, provided by another system, into formats that can be used by the datamart.

DESCRIPTION OF DRAWING(S) - The figure shows the user interface that can be used to define schema, build a datamart, load the datamart and query the datamart.

pp; 78 DwgNo 14/36

Title Terms: GENERATE; METHOD; GENERATE; EXECUTE; SET; COMMAND; GENERATE; SET; TABLE; COMMAND; ACCESS; MANIPULATE; TABLE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

9/5/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013997831  
WPI Acc No: 2001-482046/200152  
XRPX Acc No: N01-356754

**Data mart generation for database management in on-line transaction processing involves generating table access, creation and manipulation commands and query mechanism interface based on data mart schema**

Patent Assignee: **E.PIPHANY INC** (EPIP-N  
Inventor: LITVAK E; MCCASKEY J P; RASSEN J A; RAUER A; SHELAT A A  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6189004	B1	20010213	US 9873753	A	19980506	200152 B

Priority Applications (No Type Date): US 9873753 A 19980506

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6189004 B1 126 G06F-017/30

Abstract (Basic): US 6189004 B1

NOVELTY - A set of table creation and another set of table access and manipulation commands corresponding to semantic measuring of data mart schema are generated from accessed schema **definition**. A query mechanism interface is generated from accessed query mechanism description and schema description.

DETAILED DESCRIPTION - The schema is defined by semantic meanings describing transformation of data between various sources and the data mart. A description of query mechanism interface is generated in the data mart. An INDEPENDENT CLAIM is also included for data mart querying system.

USE - For **database** creation loading and accessing in on-line transaction processing.

ADVANTAGE - Users are provided with quicker data access. The data mart is consistent and flexibly for every query. Changes in **database** are automatically carried, hence implementation by hand is not required.

DESCRIPTION OF DRAWING(S) - The figure describes user interface used to define a schema, build a data mart load and query the data mart.

pp; 126 DwgNo 0/36

Title Terms: DATA; GENERATE; **DATABASE**; MANAGEMENT; LINE; TRANSACTION; PROCESS; GENERATE; TABLE; ACCESS; CREATION; MANIPULATE; COMMAND; QUERY; MECHANISM; INTERFACE; BASED; DATA

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

9/5/3 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013725813 \*\*Image available\*\*

WPI Acc No: 2001-210043/200121

XRPX Acc No: N01-149983

**Data mart generating method for online transaction processing, involves generating set of aggregate tables using set of generated aggregate commands**

Patent Assignee: **EPIPHANY** INC (EPIP-N

Inventor: MCCASKEY J P; RASSEN J A; RAUER A; **WALSH G V**; WEISSMAN C D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6161103	A	20001212	US 9873733	A	19980506	200121 B

Priority Applications (No Type Date): US 9873733 A 19980506

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6161103 A 69 G06F-017/30

Abstract (Basic): US 6161103 A

NOVELTY - Schema **definition** for data mart and description of set of aggregates to be generated in data mart are accessed. A set of commands are generated from schema **definition** and it includes a set of table access and manipulation commands which are generated corresponding to semantic meaning of the schema. A set of aggregate tables are generated using set of generated aggregate commands.

USE - For generating data mart having aggregates used in online transaction processing **databases**.

ADVANTAGE - Provides a method for automatically defining aggregates for use in a data mart which includes fact and dimension tables. Allows

a user to query the data mart by using an interface to define what fields can be used by the user to query the data mart. The system allows the consultant to specify how the results are to appear to the users.

DESCRIPTION OF DRAWING(S) - The figure shows the user interface that is used to define a schema, build a data mart, load and query the data mart.

pp; 69 DwgNo 1/36

Title Terms: DATA; GENERATE; METHOD; TRANSACTION; PROCESS; GENERATE; SET; AGGREGATE; TABLE; SET; GENERATE; AGGREGATE; COMMAND

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

9/5/4 (Item 1 from file: 348)

DIALOG(R) File 348: EUROPEAN PATENTS

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01114174

METHOD AND APPARATUS FOR DETERMINING A SET OF DATABASE ENTRIES

VERFAHREN UND VORRICHTUNG ZUM BESTIMMEN EINES SATZES VON DATENBANKEINTRAGUNGEN

METHODE DE DETERMINATION D'UN ENSEMBLE D'ENTREES DE BASE DE DONNEES ET APPAREIL CORRESPONDANT

PATENT ASSIGNEE:

E. Piphany, Inc., (938311), Suite 310, 1900 South Norfolk Street, San Mateo, CA 94403, (US), (Proprietor designated states: all

INVENTOR:

ALMGREN, Jonas, 770 Berkeley Avenue, Menlo Park, CA 94025, (US)

WEGBREIT, Eliot, Leonard, 1516 Dana Avenue, Palo Alto, CA 94303, (US)

WALSH, Gregory, Vincent, 16000 Montebello Road, Cupertino, CA 95014, (US)

LEGAL REPRESENTATIVE:

Gill, David Alan et al (69772), W.P. Thompson & Co., Celcon House, 289-293 High Holborn, London WC1V 7HU, (GB)

PATENT (CC, No, Kind, Date): EP 1080430 A1 010307 (Basic)

EP 1080430 B1 020807

WO 9962006 991202

APPLICATION (CC, No, Date): EP 99925927 990527; WO 99US11735 990527

PRIORITY (CC, No, Date): US 87518 980529

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/30

CITED PATENTS (WO A): XP 239139 ; XP 390990 ; XP 412273

CITED REFERENCES (EP B):

MCALPINE G ET AL: "INTEGRATED INFORMATION RETRIEVAL IN A KNOWLEDGE WORKER SUPPORT SYSTEM" PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON RESEARCH AND DEVELOPMENT IN INFORMATION RETRIEVAL. (SIGIR), CAMBRIDGE, MA., JUNE 25 - 28, 1989, no. CONF. 12, 25 June 1989 (1989-06-25), pages 48-57, XP000239139 BELKIN N J; VAN RIJSBERGEN C J

TSUDA K ET AL: "ICONICBROWSER: AN ICONIC RETRIEVAL SYSTEM FOR OBJECT-ORIENTED DATABASES" PROCEEDINGS IEEE WORKSHOP ON VISUAL LANGUAGES, 4 October 1989 (1989-10-04), pages 130-137, XP000390990

"MULTIPLE SELECTION LIST PRESENTATION AIDS COMPLEX SEARCH" IBM TECHNICAL DISCLOSURE BULLETIN, vol. 36, no. 10, 1 October 1993 (1993-10-01), page 317/318 XP000412273 ISSN: 0018-8689;

CITED REFERENCES (WO A):

MCALPINE G ET AL: "INTEGRATED INFORMATION RETRIEVAL IN A KNOWLEDGE WORKER SUPPORT SYSTEM" PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON RESEARCH AND DEVELOPMENT IN INFORMATION RETRIEVAL. (SIGIR), CAMBRIDGE, MA., JUNE 25 - 28, 1989, no. CONF. 12, 25 June 1989 (1989-06-25), pages 48-57, XP000239139 BELKIN N J; VAN RIJSBERGEN C J

TSUDA K ET AL: "ICONICBROWSER: AN ICONIC RETRIEVAL SYSTEM FOR OBJECT-ORIENTED DATABASES" PROCEEDINGS IEEE WORKSHOP ON VISUAL LANGUAGES, 4 October 1989 (1989-10-04), pages 130-137, XP000390990

"MULTIPLE SELECTION LIST PRESENTATION AIDS COMPLEX SEARCH" IBM TECHNICAL DISCLOSURE BULLETIN, vol. 36, no. 10, 1 October 1993 (1993-10-01), page 317/318 XP000412273 ISSN: 0018-8689;

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 010307 A1 Published application with search report  
Application: 20000126 A1 International application. (Art. 158(1))  
Grant: 020807 B1 Granted patent  
Examination: 010307 A1 Date of request for examination: 20001219  
Examination: 010425 A1 Date of dispatch of the first examination  
report: 20010309  
Application: 20000126 A1 International application entering European  
phase

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200232	1383
CLAIMS B	(German)	200232	1324
CLAIMS B	(French)	200232	1467
SPEC B	(English)	200232	4305
Total word count - document A			0
Total word count - document B			8479
Total word count - documents A + B			8479

9/5/5 (Item 1 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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00754530 \*\*Image available\*\*

METHOD AND APPARATUS FOR SCALABLE PROBABILISTIC CLUSTERING USING DECISION  
TREES

PROCEDE ET APPAREIL D'AGREGATION PROBABILISTE EXTENSIBLE UTILISANT DES  
ARBRES DE DECISION

Patent Applicant/Assignee:

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US (Residence), US (Nationality), (For all designated states except: US

Patent Applicant/Inventor:

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(Residence), US (Nationality), (Designated only for: US)

JOHN George H, 908 Knightsbridge Lane, Redwood City, CA 94061, US, US  
(Residence), US (Nationality), (Designated only for: US)

Legal Representative:

DAVIS Paul (agent), Wilson Sonsini Goodrich & Rosati, 650 Page Mill Road,  
Palo Alto, CA 94304-1050, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200067194 A2-A3 20001109 (WO 0067194)

Application: WO 2000US11626 20000428 (PCT/WO US0011626)

Priority Application: US 99304509 19990503

Parent Application/Grant:

Related by Continuation to: US 2000304509 20000503 (CON)

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE

DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC

LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK

SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

International Patent Class: G06F-017/60; G06K-009/62

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 11605

English Abstract

Some embodiments of the invention include methods for identifying

clusters in a **database**, data warehouse or data mart. The identified clusters can be meaningfully understood by a list of the attributes and corresponding values for each of the clusters. Some embodiments of the invention include a method for scalable probabilistic clustering using a decision tree. Some embodiments of the invention, perform linearly in the size of the set of data and only require a single access to the set of data. Some embodiments of the invention produce interpretable clusters that can be described in terms of a set of attributes and attribute values for that set of attributes. In some embodiments, the cluster can be interpreted by reading the attribute values and attributes on the path from the root node of the decision tree to the node of the decision tree corresponding to the cluster. In some embodiments, it is not necessary for there to be a domain specific distance function for the attributes. In some embodiments, a cluster is determined by identifying an attribute with the highest influence on the distribution of the other attributes. Each of the values assumed by the identified attribute corresponds to a cluster, and a node in the decision tree. In some embodiments, the CUBE operation is used to access the set of data a single time and the result is used to computer the influence and other calculations.

#### French Abstract

Plusieurs modes de realisation de cette invention concernent des procedes permettant d'identifier des agregats dans une base de donnees ou un depot de donnees. Les agregats identifies peuvent etre compris dans toute leur valeur a l'aide d'une liste d'attributs et de valeurs correspondantes pour chacun de ces agregats. D'autres modes de realisation de cette invention concernent un procede d'agregation probabiliste extensible utilisant un arbre de decision, alors que d'autres modes de realisation peuvent etre mis en oeuvre de maniere lineaire avec la taille d'un ensemble de donnees et ne necessitent qu'un seul acces a cet ensemble de donnees. Dans d'autres modes de realisation de cette invention, des agregats interpretables peuvent etre produits, qui sont decrits sous la forme d'un ensemble d'attributs et de valeurs d'attributs pour cet ensemble d'attributs. Dans certains modes de realisation, on peut interpreter chaque agregat en lisant les valeurs d'attributs et les attributs sur le chemin reliant le noeud racine de l'arbre de decision au noeud de l'arbre de decision qui correspond a cet agregat. Dans plusieurs modes de realisation de cette invention, une fonction de distance specifique d'un domaine n'est pas indispensable audits attributs. Dans d'autres modes de realisation, on definit un agregat en identifiant un attribut qui exerce une grande influence sur la repartition des autres attributs, chaque valeur adoptee par l'attribut identifie correspondant a un agregat et a un noeud dans l'arbre de decision. Enfin on utilise, dans d'autres modes de realisation, le mode de fonctionnement CUBE pour acceder a l'ensemble de donnees a une seule reprise, avant d'utiliser le resultat pour calculer l'influence et effectuer d'autres calculs.

Legal Status (Type, Date, Text)

Publication 20001109 A2 Without international search report and to be republished upon receipt of that report.

Search Rpt 20010802 Late publication of international search report

Republication 20010802 A3 With international search report.

9/5/6 (Item 2 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00530654

**METHOD AND APPARATUS FOR DETERMINING A SET OF DATABASE ENTRIES**

**METHODE DE DETERMINATION D'UN ENSEMBLE D'ENTREES DE BASE DE DONNEES ET APPAREIL CORRESPONDANT**

Patent Applicant/Assignee:

E PIPHANY INC ,

ALMGREN Jonas,

WEGBREIT Eliot Leonard,

WALSH Gregory Vincent

Inventor(s):

ALMGREN Jonas,  
WEGBREIT Eliot Leonard ,  
WALSH Gregory Vincent

Patent and Priority Information (Country, Number, Date):

Patent: WO 9962006 A1 19991202  
Application: WO 99US11735 19990527 (PCT/WO US9911735)  
Priority Application: US 9887518 19980529

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT  
UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD  
RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF  
CG CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class: G06F-017/30

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 5242

English Abstract

A method of defining in a computer system a subset of entries in a **database** is described. The subset is defined by a query. The method includes displaying an interface having a number of criteria description locations. The criteria description locations being positioned in rows where each row has one or more columns. The method also includes creating a criteria description in the interface. The criteria description corresponds to criteria, where the criteria define a corresponding subset of the **database**. Importantly, the relative location of the criteria description in the user interface determines how the criteria contribute to the selectivity of the query.

File 275:Gale Group Computer DB(TM) 1983-2002/Nov 28  
(c) 2002 The Gale Group  
File 583:Gale Group Globalbase(TM) 1986-2002/Nov 28  
(c) 2002 The Gale Group  
File 47:Gale Group Magazine DB(TM) 1959-2002/Nov 27  
(c) 2002 The Gale group  
File 621:Gale Group New Prod.Annou.(R) 1985-2002/Nov 26  
(c) 2002 The Gale Group  
File 636:Gale Group Newsletter DB(TM) 1987-2002/Nov 28  
(c) 2002 The Gale Group  
File 16:Gale Group PROMT(R) 1990-2002/Nov 28  
(c) 2002 The Gale Group  
File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group  
File 148:Gale Group Trade & Industry DB 1976-2002/Nov 28  
(c)2002 The Gale Group  
File 624:McGraw-Hill Publications 1985-2002/Nov 01  
(c) 2002 McGraw-Hill Co. Inc  
File 98:General Sci Abs/Full-Text 1984-2002/Oct  
(c) 2002 The HW Wilson Co.  
File 553:Wilson Bus. Abs. FullText 1982-2002/Oct  
(c) 2002 The HW Wilson Co  
File 88:Gale Group Business A.R.T.S. 1976-2002/Nov 26  
(c) 2002 The Gale Group

Set	Items	Description
S1	13948	(AUTOMATIC? OR DYNAMIC? OR TRANSPARENT? OR ON(1W)FLY OR BEHIND(2W)SCENE? ? OR REAL()TIME) (3N) (CREAT? OR GENERAT? OR BUILD? OR CONSTRUCT? OR PRODUC? OR SET????()UP OR ESTABLISH?) (3N) (DATABASE? ? OR DATA()BASE? ? OR TABLE? ?)
S2	256922	(RELATIONSHIP? ? OR RELATEDNESS OR RELAT???? OR ASSOCIAT? - OR LINK??? OR OPERATION? ? OR PROCEDURE? ? OR FUNCTION? ? OR - RULE? ? OR INTEGRITY OR CORRECT?) (5N) (ROW? ? OR COLUMN? ? OR - DATABASE? ? OR DATA()BASE? ? OR TABLE? ?)
S3	526324	DEFINITION? ? OR SCHEMA? ?
S4	1690	S1(S)S2
S5	132	S3(S)S4
S6	84	S5(S)DEFINITION? ?
S7	55	RD (unique items)
S8	83	RD S5 (unique items)
S9	28	S8 NOT S7
S10	39	S1(S)DEFINITION? ?(S)SCHEMA? ?
S11	69	S1(50N)DEFINITION? ?(50N)SCHEMA? ?
S12	38	RD (unique items)
S13	27	S12 NOT S5
S14	752	S1(S)S3 OR S1(50N)S3
S15	101	S14(S) (HUMAN OR PROGRAMMER OR DEVELOPER) OR S14(50N) (HUMAN OR PROGRAMMER OR DEVELOPER)
S16	50	RD (unique items)
S17	35	S16 NOT (S5 OR S13)
S18	55	S1(S)ERWIN OR S1(50N)ERWIN
S19	32	RD (unique items)
S20	26	S19 NOT (S5 OR S13 OR S17)
S21	56230	DATAMART? ? OR DATAWAREHOUSE? ? OR DATA() (MART? ? OR WAREHOUSE? ?)
S22	124	S1(S)S21
S23	61	RD (unique items)
S24	59	S23 NOT (S5 OR S13 OR S17)

7/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

02620886 SUPPLIER NUMBER: 88577115 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Databases tag along with XML. (Buyers Guide).**  
Jonah, Kevin  
Government Computer News, 21, 17, 32(2)  
July 1, 2002  
ISSN: 0738-4300 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 1774 LINE COUNT: 00250

... include integrated XML databases.

Rather than require the use of modeling tools to build a **definition** of the structure, or schema, of the database, XML **databases** leverage the data **definition** and **relationship** standards of XML itself, using the W3C's document type **definitions** (DTDs) or XML **Schema** standards to **build** the indices and structures.

Some **databases** even **build** these on the fly as documents are added; this ad hoc schema building dramatically reduces the amount of work  
...

7/3,K/2 (Item 2 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02176064 SUPPLIER NUMBER: 20527052 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**SilverStream 1.0. (SilverStream Software's Web application development software) (Software Review) (Evaluation)**  
Smith, Brian J.  
DBMS, v11, n3, p29(3)  
March, 1998  
DOCUMENT TYPE: Evaluation ISSN: 1041-5173 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 2667 LINE COUNT: 00209

... scrolling list of line items). The form and the view are displaying data from several **related tables**.

**Tables** are regular **database tables**. You can create tables and add fields to tables with the Table Designer. SilverStream lets you enhance table **definitions** in several ways beyond what a standard SQL DBMS supports: You can add special properties...

...apply to each field when you place it on a form. You can specify the **relationships** among **tables** and choose whether or not to implement the relations as DBMS-managed foreign keys. (SilverStream...  
...or view.) You can flag fields for high-speed, full-text searching. And you can **set up a table** for "versioning" so that SilverStream **automatically** records any changes a user makes to the **table** in a separate "version table."

SilverStream does not provide direct support for stored procedures or  
...

7/3,K/3 (Item 3 from file: 275)  
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02070455 SUPPLIER NUMBER: 19230198 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Developer/2000. (Oracle's Developer/2000 1.4 application development tool) (Software Review) (Evaluation)**  
Roti, Steve  
DBMS, v10, n4, p58(3)  
April, 1997  
DOCUMENT TYPE: Evaluation ISSN: 1041-5173 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 2137 LINE COUNT: 00185



... describing applications. Because of its integration with Oracle7, Developer/2000 can create applications from database **definitions** without requiring any procedural code. Applications built using the Developer/2000 point-and-click declarative features **automatically establish all database** interaction based on server **definitions**, provide a complete query-by-example interface, add database constraints to the application, and incorporate a toolbar for performing **database operations** (insert, update, and delete), a menu to invoke operations from, and all message and error...

7/3,K/4 (Item 4 from file: 275)  
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02032699 SUPPLIER NUMBER: 19030794 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**DBA tools today: an update on the latest tools and techniques to help simplify DBA tasks. (database administrator) (includes DBA product feature table) (Buyers Guide)**  
Schumacher, Robin  
DBMS, v10, n1, p71(9)  
Jan, 1997  
DOCUMENT TYPE: Buyers Guide ISSN: 1041-5173 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 4825 LINE COUNT: 00386

... a modeling tool. These physical modeling tools provide relief from writing endless lines of data **definition** language (DDL) to build complete database or user **schemas**. Instead, once all physical design characteristics have been entered in a graphical manner, you can...

...be either launched directly from the tool to create a database or run through the **database** vendor's query tool. Referential **integrity** support is also built into most modeling tools, allowing either the declarative form of referential **integrity** to be used for **databases** that support it, or triggers to be **automatically constructed** to handle integrity constraints.

In addition, the major modeling tools also offer reverse-engineering capabilities...

7/3,K/5 (Item 5 from file: 275)  
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01987277 SUPPLIER NUMBER: 18692644 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Visual dBASE does the Web. (Borland's WebTools for dBASE Web development tool) (Desktop DBMS) (Product Information) (Column)**  
Spitzer, Tom  
DBMS, v9, n10, p89(4)  
Sep, 1996  
DOCUMENT TYPE: Column ISSN: 1041-5173 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 3149 LINE COUNT: 00241

... in that database as if they were dBASE tables in a directory. First, use **SET DATABASE TO <alias>** to **link** to the **database**, and then issue the **USE <anytable>** command, which is very familiar to Xbase programmers. **USE...**

...against either a local database or a SQL server. This capability applies to both data **definition** and data-processing operations. I did discover a trick that made working against either type of **table transparent**: **Create** a BDE alias for local **tables** just as you must do for server tables. Once you have done this, you can issue the **SET DATABASE TO <database>** command to activate either a local or a SQL **database**, and you can perform heterogenous **operations** by including the **database** alias in

your command. For instance, to join a dBASE table to a SQL server...

7/3,K/6 (Item 6 from file: 275)  
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01934267 SUPPLIER NUMBER: 18272583 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
DataEase for Windows. (one of five evaluations of databases in "Kinder  
Gentler Databases") (Software Review) (Evaluation)  
Plain, Stephen W.  
PC Magazine, v15, n10, p128(2)  
May 28, 1996  
DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 873 LINE COUNT: 00077

... or create an application, DataEase presents the Catalog, a  
container window of the application's **Tables**, Menus, Forms, Reports, and  
**Procedures**. DataEase blurs the distinction between forms and tables by  
eliminating the usual step of defining tables before using them for forms.  
When you **create** a new form, the program **creates** the **table**  
**automatically** as you place fields on the form, and when you draw a new  
field, the field **definition** window appears.

Field Work

The field definition window lets you define all of a field...

7/3,K/7 (Item 7 from file: 275)  
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01900241 SUPPLIER NUMBER: 17982685  
Sit back and let DB2 handle your constraints. (IBM's DB2 for MVS 4.1 DBMS)  
(DBA Shoptalk) (Product Support) (Tutorial) (Column)  
Wiorkowski, Gabrielle; Kneiling, John  
Database Programming & Design, v9, n3, p61(3)  
March, 1996  
DOCUMENT TYPE: Tutorial Column ISSN: 0895-4518 LANGUAGE: English  
RECORD TYPE: Abstract

ABSTRACT: IBM's DB2 for MVS 4.1 DBMS is capable of **automatically**  
validating data in a **table created** with the CHECK clause when users  
define specific criteria. Constraint **definitions** hold the majority of  
positive conditions used in a SELECT...WHERE clause. After V4.1 accepts the  
constraint **definition**, it monitors rows while data is inserted and  
updated with SQL. Although any name can...

...be unique within the table. V4.1 will not check the construction of a  
constraint **definition**, and constraint **definitions** are incapable of  
comparing **columns** to **column functions**, host variables, parameter  
markers or special registers. The database descriptor stores information,  
and the data...

7/3,K/8 (Item 8 from file: 275)  
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01875347 SUPPLIER NUMBER: 17852262 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Lotus takes a new Approach; database maintains ease of use, adds scripting  
language. (Approach 96) (includes related article on test methodology)  
(Software Review) (Evaluation)  
Taschek, John  
PC Week, v12, n49, p79(2)  
Dec 11, 1995  
DOCUMENT TYPE: Evaluation ISSN: 0740-1604 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2588 LINE COUNT: 00246

... than twice as fast as Access on any given test.

Database definition

Approach's database- **definition** tools are powerful but easy to use. To create a database, we had three options from which to choose: We could use an Approach template that **automatically** builds a single **table** with **associated** forms, a SmartMaster application assistant that builds an entire application, or a blank database.

Neither...

7/3,K/9 (Item 9 from file: 275)

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01864614 SUPPLIER NUMBER: 17602972 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**A database for the masses: Access is easy to use, but developers may wince at changes. (Microsoft's Access for Windows 95) (includes related articles on Microsoft's Office suite, database porting to Windows 95 and test methodology) (Software Review) (Evaluation)**

Taschek, John

PC Week, v12, n45, p155(4)

Nov 13, 1995

DOCUMENT TYPE: Evaluation ISSN: 0740-1604

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3218 LINE COUNT: 00263

... tools. We could easily configure our tables for one-to-one and one-to-many **links**. Access also looks at **table**-key **definitions** to **automatically** **create** the appropriate joins.

Access supplements the powerful data-integrity functions of Version 2.0 with...

7/3,K/10 (Item 10 from file: 275)

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01844799 SUPPLIER NUMBER: 16686821 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**A few of my favorite things: these tools can save you a lot of time building applications. (Windows development tools)**

Nesbitt, Kenn

Data Based Advisor, v13, n3, p60(2)

March, 1995

ISSN: 0740-5200

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 951 LINE COUNT: 00074

...ABSTRACT: be bound to a data control or managed programmatically; binding it to a data control **creates** an editable **table** **automatically**. A second grid control can be used as a drop-down listbox and bound to...

...and layout of tables. S-Designor lets programmers design a conceptual data model for the **database** that serves as an entity- **relationship** diagram independent of the physical implementation. The program checks the accuracy of the diagram and...

...is specific to the database. The program creates SQL or other source code, called data **definition** language, to build the database after the physical data model has been generated.

7/3,K/11 (Item 11 from file: 275)

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01823254 SUPPLIER NUMBER: 16835978 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The challenge of replication, part 2. (the second of a two-part series on**

database replication technology)

Edelstein, Herb

DBMS, v8, n4, p62(6)

April, 1995

ISSN: 1041-5173

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 6345

LINE COUNT: 00506

... to that data, as well as distribute the data to all local servers.

A replication **definition** publishes data available at the primary site and registers it in the Replication Server database...

...row and column subset of the source table using a WHERE clause in the subscription **definition**. The subscription can even change the names of the source columns. **Creating** a subscription **automatically** initializes the replicated **table**. For large **tables** it would be better to turn initialization off and load the replicated table from a...

...of across a WAN to avoid bogging down the network. This separation of the replication **function** from the **database** and application improves data independence by allowing developers to modify the replication **rules** without affecting the **database** or application code.

In Replication Server, operations such as replication definitions and subscriptions automatically generate...

7/3,K/12 (Item 12 from file: 275)

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01753306 SUPPLIER NUMBER: 16688867 (USE FORMAT 7 OR 9 FOR FULL TEXT)

ERROS WINS IBM MARKETING AGREEMENT FOR ITS ERROS RAPID APPLICATION

DEVELOPMENT SYSTEM FOR THE AS/400.

Computergram International, pCGN03030020

March 3, 1995

ISSN: 0268-716X

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 816

LINE COUNT: 00062

TEXT:

...speed of development lies in the fact that the database contains all data and application **definitions**: it acts as a database management system, dictionary, repository and application environment with a single...

...what he believes is the artificial divide between rules and information, with data and application **definitions** linked. Erros, which stands for Expert Real-time Relational Open Systems, creates neither code nor...

...bi-directional relationships. Each item is stored as an independent entity that can then be **linked** to other entities in the **database** in a forwards and back-ards fashion so that if one were developing an application...

...their business model, in the example the relationship between the doctors and patient, into the **database**. The **relationship**, a kind of diagram, is entered in any everyday language. As long as all developers...

...type of linkage enables users to navigate from one diagram to another. Also, these links, **definitions** and parts of di-agrams can be re-used indefinitely. For example, once 'name and...

...about how the business is run: applications for one part of the business can be **created** and extended, even when live, with the **database** **automatically** integrating all amendments. If an error is made, Dixon says, it is simple to break...

...be minimal because programs are not actually created - all there is is a series of **relationships** **linked** in a **database** and the user makes call to the database to run the application. A graphical interface...

7/3,K/13 (Item 13 from file: 275)  
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01713752 SUPPLIER NUMBER: 16301761 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
EasyCASE System Designer. (Evergreen CASE Tools Inc's CASE software)  
(Software Review) (Evaluation)  
Herndon, David  
DBMS, v7, n13, p30(3)  
Dec, 1994  
DOCUMENT TYPE: Evaluation ISSN: 1041-5173 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1831 LINE COUNT: 00144

... CASE tools to their repository-based development environments.  
Schema Generation  
EasyCASE lets you easily create **schema** data **definition** language  
and Xbase-type database files directly from your data-model diagrams.  
Supported databases include...

...DB2, and about 20 others, including most Xbase variants. EasyCASE does  
not currently support the **automatic** generation of **database** triggers and  
referential- **integrity** constraints. The product will reverse-engineer most  
of the Xbase file types into its data dictionary as record **definitions**  
that you can attach to entities on ERDs and other record-oriented objects.  
What's...

7/3,K/14 (Item 14 from file: 275)  
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01702825 SUPPLIER NUMBER: 16247014 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
The case for S-Designor. (CASE software from SDP Technologies Inc.)  
(Software Review) (Test Drives) (Evaluation)  
Nesbitt, Kenn  
Data Based Advisor, v12, n9, p18(2)  
Sept, 1994  
DOCUMENT TYPE: Evaluation ISSN: 0740-5200 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1397 LINE COUNT: 00113

... Extended Attributes dialog in which you can further describe  
database-specific field characteristics.  
After you **create** the conceptual and physical models of your  
**database**, S-Designor can **automatically** **create** the data **definition**  
language (DDL) or other code (e.g., Access Basic, ObjectPAL, etc. necessary  
to build the database, tables, indexes, etc. If your **database** uses  
triggers for referential **integrity** (as does Microsoft SQL Server),  
S-Designor can automatically generate the triggers for you.  
Other...

7/3,K/15 (Item 15 from file: 275)  
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01697037 SUPPLIER NUMBER: 16182790 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Configuration management utility. (CompuFlex International's CompuFlex  
Object Manager for SQL Server database application development software)  
(Brief Article) (Product Announcement)  
Data Based Advisor, v12, n8, p26(1)  
August, 1994  
DOCUMENT TYPE: Product Announcement ISSN: 0740-5200 LANGUAGE:  
ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 97 LINE COUNT: 00008

TEXT:

...open server back end that supports complete configuration management for SQL Server objects, including triggers, **tables**, stored **procedures**, **rules**, defaults, and constraints. Eliminates the need for manual code upgrades in test and **production**. Preserves existing **production** and test data when **tables** are modified, and **automatically** re-compiles dependent objects. Works with data modeling tools that generate SQL Server Data **Definition** Language. Prices are \$4,000 per server, \$1,000 per client. CompuFlex International, (818) 226...

7/3,K/16 (Item 16 from file: 275)  
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01695511 SUPPLIER NUMBER: 16187386 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Clarion Database Developer. (Clarion Software Corp) (Software Review) (one of 10 evaluations of DBMS development software in "Developer Databases Serious Solutions") (Evaluation)**  
Plain, Stephen W.  
PC Magazine, v13, n15, p180(2)  
Sept 13, 1994  
DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1298 LINE COUNT: 00109

... stored as .DCT files. These files can be associated with one or more applications to **generate** code that defines the **database schema**, **integrity** constraints, and validation **rules automatically**. You **build** the .DCT files using the interactive Dictionary Editor. Clarion Database Dictionaries are not, however, true...

...by hand. Despite its limitations, the Dictionary Editor is an effective productivity tool, and the **definition** of referential-integrity rules couldn't be simpler. Clarion lets you individually select Cascade, Nullify

7/3,K/17 (Item 17 from file: 275)  
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01689852 SUPPLIER NUMBER: 15399636 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Delivery and retrieval technology. (Seybold Special Report: Seybold Seminars Boston '94, Part II)**  
Seybold Report on Publishing Systems, v23, n16, pS20(16)  
May 10, 1994  
ISSN: 0736-7260 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 16097 LINE COUNT: 01272

... internal structure, years ago CTMG elected to use sgml as an external representation of its **database schemas** (the fields and their **relationships**). What that means in practical terms today is that CTMG (oops, Active) has an sgml database in which a new **schema** can be loaded simply by feeding the **database** a new document type **definition** (dtd). The **database automatically sets up** fields for each element and attribute, taking its clues from the dtd as to whether...

7/3,K/18 (Item 18 from file: 275)  
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01676880 SUPPLIER NUMBER: 15321092 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**InfoModeler. (Asymetrix Corp's database design tool) (PC Week LABS Product of the Week) (Brief Article)**  
PC Week, v11, n15, p134(1)  
April 18, 1994  
DOCUMENT TYPE: Brief Article ISSN: 0740-1604 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT  
WORD COUNT: 839 LINE COUNT: 00070

... table definitions through the Table Browser and modify them.  
Once our design seemed complete, InfoModeler **automatically** generated the necessary Access Basic Script for Access **databases**, the Data Definition Language **procedure** for SQL **databases**, or the FoxPro **procedure** for FoxPro **databases**, from the logical model of the database we created.

Quality of generated documentation  
Simply by...

7/3,K/19 (Item 19 from file: 275)  
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01635083 SUPPLIER NUMBER: 15050474 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Under development. (more tools needed for developing client-server applications) (Software Review) (Cognos Inc.'s Axiant database application development software) (Evaluation)**  
England, Ken  
DEC User, p31(2)  
Dec, 1993  
DOCUMENT TYPE: Evaluation ISSN: 0263-6530 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1155 LINE COUNT: 00095

... s master repository and made public.  
Axiant's repository contains a rich set of data **definitions**, including referential **integrity** information. Relational and non-relational **database** schemes can be **generated automatically**, but developers can enhance the **schema** using any special features provided by their database management system of choice; they may, though...

7/3,K/20 (Item 20 from file: 275)  
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01617422 SUPPLIER NUMBER: 14394256 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Bristol adds SGML compiler to HyperHelp; loads SGML files into online Help. (Bristol Technology introduces HyperHelp SGML Compiler; Standard Generalized Markup Language) (Product Announcement)**  
Seybold Report on Publishing Systems, v23, n2, p40(1)  
Sept 15, 1993  
DOCUMENT TYPE: Product Announcement ISSN: 0736-7260 LANGUAGE:  
ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 178 LINE COUNT: 00014

The HyperHelp sgml Compiler accepts arbitrary sgml document type **definitions** (dtds) and maps the document structure to external style sheets for controlling the appearance of text in the Help system. It also **automatically** generates content, such as a **table** of contents and **associated** hyperlinks, based on the document tags.

HyperHelp also accepts files in Frame's mif and...

7/3,K/21 (Item 21 from file: 275)  
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01617132 SUPPLIER NUMBER: 14381880 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Bristol adds SGML compiler to HyperHelp: loads SGML files into online Help. (Standard Generalized Markup Language) (Bristol Technology Inc.'s graphical user interface) (Brief Article) (Product Announcement)**  
Seybold Report on Publishing Systems, v23, n1, p53(1)  
Sept 1, 1993

DOCUMENT TYPE: Product Announcement ISSN: 0736-7260 LANGUAGE:  
ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 178 LINE COUNT: 00014

The HyperHelp sgml Compiler accepts arbitrary sgml document type **definitions** (dtds) and maps the document structure to external style sheets for controlling the appearance of text in the Help system. It also **automatically** generates content, such as a **table** of contents and **associated** hyperlinks, based on the document tags.

HyperHelp also accepts files in Frame's mif and...

7/3,K/22 (Item 22 from file: 275)  
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01580306 SUPPLIER NUMBER: 13085221 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Database custom controls for Visual Basic. (Coromandel Industries Inc.'s**  
**Dbcontrols program development software) (New Products) (Brief Article)**  
**(Product Announcement)**  
Windows-DOS Developer's Journal, v4, n1, p72(1)  
Jan, 1993  
DOCUMENT TYPE: Product Announcement ISSN: 1059-2407 LANGUAGE:  
ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 108 LINE COUNT: 00009

The Field **Definition** control can **build** the **database** structure and **automatically create** or register data and index files. Even complex multi-part indexes can be created. The **Database Operation** control lets you build command buttons on the Visual Basic form to which properties such

7/3,K/23 (Item 23 from file: 275)  
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01534355 SUPPLIER NUMBER: 12537194 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Using stored procedures and triggers. (Application Strategies) (Tutorial)**  
Edelstein, Herb  
DBMS, v5, n10, p66(5)  
Sept, 1992  
DOCUMENT TYPE: Tutorial ISSN: 1041-5173 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 4568 LINE COUNT: 00362

... a stored procedure.

The SQL inside a stored procedure can include most SQL statements, including **CREATE TABLE**. A **procedure** may **create** a temporary **table** that is **automatically** dropped when the procedure ends. Most other implementations do not allow the use of a DDL (data **definition** language) statement in a stored procedure.

A stored procedure can return sets of data to...

7/3,K/24 (Item 24 from file: 275)  
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01505564 SUPPLIER NUMBER: 11980184 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Controlled rapid prototyping. (Software Engineering)**  
Keuffel, Warren  
Data Based Advisor, v10, n3, p152(5)  
March, 1992  
ISSN: 0740-5200 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1869 LINE COUNT: 00150

... isn't wasted. The way these tools are evolving, soon they'll



provide complete database **schema** generation from the CASE tool data dictionary. Developers will be able to use their CASE tools to **create** logical **database** designs and **automatically** generate the physical **database definitions** from them.

Analysis rules worth breaking

To move more quickly toward implementation, I've adopted two changes to classical...

7/3,K/25 (Item 25 from file: 275)

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01465994 SUPPLIER NUMBER: 11485584 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Personal R:BASE. (from Microrim Inc.) (Software Review) (one of ten evaluations in 'Database power without programming') (Evaluation)

Salemi, Joe

PC Magazine, v10, n21, p152(3)

Dec 17, 1991

DOCUMENT TYPE: Evaluation ISSN: 0888-8507

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 887 LINE COUNT: 00068

... Personal R:BASE uses the same data files as R:BASE: one file for the **definition** of the database structure, a second for the data itself, and a third for the...

...the dBASE-style fields and records. Through the use of QBE, it's easy to **create** a view (a temporary **table created on the fly by relating** data from two or more **tables** based on common columns). A view is treated like any other table and can be...

7/3,K/26 (Item 26 from file: 275)

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01454604 SUPPLIER NUMBER: 11315169 (USE FORMAT 7 OR 9 FOR FULL TEXT)

A dream front end: VB to SQL Server. (Microsoft Corp.'s Visual Basic product development software)

Zuck, Jonathan

DBMS, v4, n11, p56(3)

Oct, 1991

ISSN: 1041-5173 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2939 LINE COUNT: 00223

... even with these improvements in database management, the client still needs some awareness of the **relationships** that exist between **tables**. In the traditional DBMS product, this is handled through the design of the form. A...

...end business -- ObjectView, SQLWidows, Omnis 5, and even Toolbook with the Aardeus add-on -- can **automatically generate** at least a single-**table** data-entry form **automatically** from the **table definition** on SQL Server. Powerbuilder even allows the user to define the form as a sort...

7/3,K/27 (Item 27 from file: 275)

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01438247 SUPPLIER NUMBER: 10804518 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Science fact. (Software Review) (brief review of the CQCS fourth-generation language from Cyberscience Corp) (evaluation)

Leach, Julian

DEC User, p35(1)

April, 1991

DOCUMENT TYPE: evaluation

ISSN: 0263-6530

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 979 LINE COUNT: 00077

... in applications. The storage and display formats of fields are held here, providing a central **definition** across screens and reports in the system. It also holds the **relationships** between **tables** and fields on which tables are joined. The creation of screens and reports are simplified because CQCS can **generate** code **automatically** to handle **table** access.

Cyberquery performance is claimed to be particularly good with RMS. In addition, multiple subsets...

7/3,K/28 (Item 28 from file: 275)  
DIALOG(R) File 275:Gale Group Computer DB(TM)  
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01427352 SUPPLIER NUMBER: 10625598 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Minigrams.**

Computergram International, n1559, CGI04240013

April 24, 1991

ISSN: 0268-716X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 2515 LINE COUNT: 00209

... time Unix System V; the basic product consists of a range of standard features and **functions**, including a real-time process **database** with interactive **definition**, data acquisition and conversion, alarm processing, report generation, graphic trending and a man-machine interface ...and there is support for VGA full pixel graphics, multiple application windows, paint-like display **generation**, and **transparent** data exchange between the Pace/IX **real - time data base** and a variety of windows applications; the software costs upwards of \$16,000 and expected...

7/3,K/29 (Item 29 from file: 275)  
DIALOG(R) File 275:Gale Group Computer DB(TM)  
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01424078 SUPPLIER NUMBER: 10537557 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Amdahl describes its subversive Huron answer to IBM software users' problems. (Amdahl Huron program development strategy)**

Computergram International, n1644, CGI04030005

April 3, 1991

ISSN: 0268-716X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 1086 LINE COUNT: 00089

... data-driven since application objects are separated from data objects. The MetaStor maintains and controls **definitions** and links between objects, and whenever an object is changed, the MetaStor reflects that change...

...multiple logical records. The extended relational model used for the native database supports identifiers, semantic **definitions** of data elements and event-driven processing. Data conversions, set **operations**, selections, sorting, defaulting, auditing, **database** validation and **database integrity** are carried out at data level. The **database** supports **automatic** key **generation** for data records, and to speed up random accessing in large databases, there is an...

...scheme to permit extensions to hashed space allocation as an alternative to the B-tree. **Database operations** are continuous, and journals are merged concurrently with on-line operations. Amdahl says that interruptions

...model are said to support the self-defining nature of Huron as well as the **definition** of other data. The database system enables developers to work with the logic of the...

7/3,K/30 (Item 30 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

01420466 SUPPLIER NUMBER: 09720185 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Personal R:BASE: the popular relational database goes light. (Software Review) (Microrim Personal R:BASE) (evaluation)**  
Salemi, Joe  
PC Magazine, v10, n2, p43(1)  
Jan 29, 1991  
DOCUMENT TYPE: evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 885 LINE COUNT: 00069

... its bigger brother. An R:BASE database consists of just three files: one for the **definition** of the database structure, the second for the data itself, and the third for the indexes. Data is stored in **tables**. Relational links between two **tables** that share a common column are **created automatically** when you **create** a new **table**.

A benefit of this approach is the ability to create views," where a temporary table...

7/3,K/31 (Item 31 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01311816 SUPPLIER NUMBER: 07869148 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Lamaura Development offers a data dictionary for use with DBase.**  
Ring, Katy  
Computergram International, n1304, pCGI11100011  
Nov 10, 1989  
ISSN: 0268-716X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 585 LINE COUNT: 00045

... dictionary's specifications, as well as determining whether a field is used to set up **relationships** with another **table** and, if it is, the name of the target field in the look-up **table**. It has circular reference checking, **referential integrity**, the **automatic creation** of data **tables** for a finished design, a 20Kb dictionary log, a 20Kb table notepad and 256-byte...

...The advantages of the dictionary are that it reduces development time since it can reuse **definitions**, that it gives a consistent application development environment with the real-time changes increasing communications...

7/3,K/32 (Item 32 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01304752 SUPPLIER NUMBER: 07505208 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**New & improved. (product introductions) (product announcement)**  
Cohen, Alan  
PC Magazine, v8, n15, p53(4)  
Sept 12, 1989  
DOCUMENT TYPE: product announcement ISSN: 0888-8507 LANGUAGE:  
ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 2529 LINE COUNT: 00202

... when they complete and return a coupon included in Excel packages. Q+E is a **database** query tool that **links** Excel to external **databases** and allows for dynamic data exchange (DDE) links between the spreadsheet cells and the database. The program, which works within the Microsoft Windows graphical environment, extends Excel's built-in **database** to any dBASE file on-disk by **automatically generating** SQL statements to extract data from any dBASE-compatible file. Furthermore, while the SQL statements...

...for \$49.95. Q+E retails for \$149. The version available from Pioneer Software contains **definition** commands in addition to query commands. Microsoft Corp., Redmond, Wash.; (800) 426-9400. Pioneer Software...

7/3,K/33 (Item 33 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01302474 SUPPLIER NUMBER: 07760067 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Tools to database: hey, can we talk? (integration of CASE and DBMS tools)**  
Edelstein, Herb  
Software Magazine, v9, n9, p67(5)  
July, 1989  
ISSN: 0897-8085 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 2409 LINE COUNT: 00196

... Index Technology released interfaces to DB2, and to VAX CDD/Plus.  
The DB2 interface will **automatically** generate the SQL data **definition** for the **database** designed in Excelerator. The **link** to DB2 also includes extensions to the XLDictionary where information specific to the DB2 data...

7/3,K/34 (Item 34 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01261871 SUPPLIER NUMBER: 07079997 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Index interface links CASE and IBM's DB2. (Index Technology Corp.) (computer-aided software engineering) (product announcement)**  
Feuche, Mike  
MIS Week, v9, n43, p23(2)  
Oct 24, 1988  
DOCUMENT TYPE: product announcement ISSN: 0199-8838 LANGUAGE:  
ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 872 LINE COUNT: 00073

... data -- specifically, into structured query language (SQL), which can be used to implement a DB2 **database**.  
The **link** 's DB2 utilities **automatically create** DB2 entities. For example, the **link** can **automatically create** DB2 **tables** from logical record **definitions** developed in Excelerator and then enable the database administrator to prototype views and table spaces...

7/3,K/35 (Item 35 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01207688 SUPPLIER NUMBER: 06168588 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Creating a multiple-form Symphony database.**  
Gruner, Mark H.  
Lotus, v3, n6, p92(7)  
June, 1987  
ISSN: 8756-7334 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 3628 LINE COUNT: 00273

... How to Create and Modify a Symphony Entry Form" in the May 1986 issue.

The **definitions** for the ranges that Symphony **automatically generates** appear on the **Database** Setting sheet, which you may view by selecting MENU Settings. To each range, Symphony assigns...

...the specific range. Columns 2 and 3 of figure 2 show the range names and **definitions** for each range in the ADDRESS database. (For now, ignore the **definitions** shown in parentheses.) Later we'll modify some of these range

definitions to link both forms in a single database .

Next you create a second database in the same window. To begin, switch to a...

7/3,K/36 (Item 1 from file: 47)

DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2002 The Gale group. All rts. reserv.

02434527 SUPPLIER NUMBER: 02822854 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Relational database systems for micros.**

Bowerman, Robert

Datamation, v29, p128(5)

July, 1983

CODEN: DTMNA LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 4150 LINE COUNT: 00331

... implementation time. THREE KINDS OF DBMS

A DBMS can either hierarchical, network, or relational. One definition of relational is that no user-visible links preexist between tables, and that links between tables are created dynamically upon request. Both hierarchical and network DBMS require preexisting links known to the user. Due...

7/3,K/37 (Item 1 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2002 The Gale Group. All rts. reserv.

01388384 Supplier Number: 46423148 (USE FORMAT 7 FOR FULLTEXT)

**Microsoft Visual C++ now Competes with Delphi Client/Server Suite and PowerBuilder**

News Release, pN/A

May 31, 1996

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1551

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...developers to visually and quickly create Client/Server applications. The Visual SQL Tools provide easy definition of queries, SQL statements, tables, pick lists, custom screens, and more, as well as instant...

...from tables or queries in combo boxes or list boxes as well as popup boxes created on the fly. Database Explorer The Database Explorer's visual environment allows Visual C++ developers to instantly access and manage all database...

...database objects and resources included in a specific Client/Server application. Programmers can instantly access database - related dialog boxes, queries, SQL statements, properties, pick lists, SQL source code, and more. This is...

...particularly when the database has been modified. The AppBrowser lets the developer rapidly find any database - related application objects affected by the changes in the database. Database Independence Visual SQL generates ODBC...

7/3,K/38 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

02057624 Supplier Number: 43760711 (USE FORMAT 7 FOR FULLTEXT)

**WINDOWS NT: MICROSOFT SQL SERVER; CLIENT-SERVER DEVELOPMENT KIT FOR WINDOWS NT DELIVERS IDEAL PLATFORM FOR DEVELOPING SCALABLE, 32-BIT APPLICATIONS FOR WINDOWS NT**

EDGE: Work-Group Computing Report, v4, n150, pN/A  
April 5, 1993  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 1339

... unattended backup at scheduled time intervals.  
--SQL Object Manager. This new graphical administration tool manages  
**database tables**, views, stored **procedures**, triggers, etc. A new  
Windows-based loader transfers data to and from common PC data formats, and  
an interactive script **generator** automatically builds SQL data  
**definition** statements from existing **databases**.  
EASY MIGRATION OF EXISTING APPLICATIONS  
Special attention has been paid to help ensure seamless  
interoperability...

7/3,K/39 (Item 2 from file: 636)  
DIALOG(R) File 636:Gale Group Newsletter DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

01473781 Supplier Number: 42026762 (USE FORMAT 7 FOR FULLTEXT)  
**MODULAR COMPUTER SYSTEMS INTRODUCES PACE/IX**  
Computergram International, n1659, pN/A  
April 24, 1991  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 143

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
...time Unix System V; the basic product consists of a range of standard  
features and **functions**, including a real-time process **database** with  
interactive **definition**, data acquisition and conversion, alarm  
processing, report generation, graphic trending and a man-machine interface

...and there is support for VGA full pixel graphics, multiple application  
windows, paint-like display **generation**, and **transparent** data exchange  
between the Pace/IX **real - time data base** and a variety of windows  
applications; the software costs upwards of \$16,000 and expected...

7/3,K/40 (Item 3 from file: 636)  
DIALOG(R) File 636:Gale Group Newsletter DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

01168813 Supplier Number: 41018985 (USE FORMAT 7 FOR FULLTEXT)  
**LAMAURA DEVELOPMENT OFFERS A DATA DICTIONARY FOR USE WITH dBASE**  
Computergram International, n1303, pN/A  
Nov 10, 1989  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 550

... dictionary's specifications, as well as determining whether a field  
is used to set up **relationships** with another **table** and, if it is, the  
name of the target field in the look-up **table**. It has circular reference  
checking, referential **integrity**, the **automatic creation** of data  
**tables** for a finished design, a 20Kb dictionary log, a 20Kb table notepad  
and 256-byte...

...The advantages of the dictionary are that it reduces development time  
since it can reuse **definitions**, that it gives a consistent application  
development environment with the real-time changes increasing  
communications...

7/3,K/41 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

08460391 Supplier Number: 72334171  
**PDA for companies.**  
New Technology Japan, p28(1)  
Feb, 2001  
Language: English Record Type: Abstract  
Document Type: Magazine/Journal; Trade

ABSTRACT:

...PIM software, can be used by company users for mobile access to business intranet and **databases**, field assistance **functions** and **real time** information services. The **product** 's monitor consumes less power and is a high **definition** hyper amorphous silicon TFT color liquid crystal display.  
...

7/3,K/42 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

04113089 Supplier Number: 45999544 (USE FORMAT 7 FOR FULLTEXT)  
**Lotus takes a new Approach; Database maintains ease of use, adds scripting language**  
PC Week, p79  
Dec 11, 1995  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Tabloid; General Trade  
Word Count: 2596

... than twice as fast as Access on any given test.  
Database definition  
Approach's database- **definition** tools are powerful but easy to use.  
To create a database, we had three options from which to choose: We could use an Approach template that **automatically** builds a single **table** with **associated** forms, a SmartMaster application assistant that builds an entire application, or a blank database.  
Neither...

7/3,K/43 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

04104357 Supplier Number: 45984776 (USE FORMAT 7 FOR FULLTEXT)  
**IQ Offers Objects For End-Users**  
InformationWeek, p101  
Dec 4, 1995  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Tabloid; General Trade  
Word Count: 613

... base accesses only one data source. IQ provides a knowledge base editor that reads the **schema definition** of a target **database** and **automatically** creates objects for the fields in the **database** and **relationships** for each of the **table** joins. These are then fine-tuned by the administrator.  
In my testing in InformationWeek's...

7/3,K/44 (Item 4 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

04074999 Supplier Number: 45933764 (USE FORMAT 7 FOR FULLTEXT)  
**A database for the masses**

PC Week, pN/A

Nov 13, 1995

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Tabloid; General Trade

Word Count: 2358

... tools. We could easily configure our tables for one-to-one and one-to-many links. Access also looks at **table**-key **definitions** to **automatically create** the appropriate joins.

Access supplements the powerful data-integrity functions of Version 2.0 with...

7/3,K/45 (Item 5 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2002 The Gale Group. All rts. reserv.

01986451 Supplier Number: 42544254

**Cadre Package Eases Relational Database Move**

PC Week, p49

Nov 25, 1991

Language: English Record Type: Abstract

Document Type: Magazine/Journal; Tabloid; General Trade

ABSTRACT:

...and IBM's DB2 relational databases. The product features an expert system that scans current **databases** to discover the fundamental **rules** and their structure. The program then incorporates a 'design-by-example' feature to **automatically generate** and show **tables** of sample data that depict the design rules. The program contains 4 components: DB Analyzer to scan **database tables** and indexes to differentiate **rules**; DB Generator to generate data **definitions** for Oracle and DB2; DB Link to import entity-relationship models; and DB Designer to build **database** prototypes from the business **rules**.

7/3,K/46 (Item 1 from file: 160)

DIALOG(R)File 160:Gale Group PROMT(R)

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01549497

**Introducing the DesignMachine (TM) -- for truly automated systems development.**

NEWS RELEASE October, 1986 p. 11

... XT, PC/AT, or compatibles, the DesignMachine automates the steps required to complete the Requirements **Definition** phase of Ken Orr's Data Structured Systems Development (DSSD (R) methodology. When you record system requirements in the DesignMachine **data base**, the DesignMachine **automatically produces** DSSD design deliverables. The DesignMachine is the first computer-aided software engineering tool to truly...

... today offers the comprehensive assistance available in the DesignMachine. The DesignMachine automatically enforces rigorous methodology **procedures**, maintains an integrated design **data base**, generates DSSD graphics and forms, supports and enforces quality assurance, and enforces change control. The...

7/3,K/47 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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12140139 SUPPLIER NUMBER: 61241877 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**An automatic assembly liaison extraction method and assembly liaison model.**

LINN, RICHARD J.; LIU, HUNSZU

IIE Transactions, 31, 4, 353

April, 1999



ISSN: 0740-817X      LANGUAGE: English      RECORD TYPE: Fulltext  
WORD COUNT: 6461      LINE COUNT: 00507

... relation information was available. No liaison extraction was involved.

To fully support the development of **automatic** assembly sequence generation, a direct CAD **database** interface is needed. The part **relation** must be identified automatically. The part relationships representation should include not only the hierarchy relationship but also the horizontal relationship. The part relation **definition** should be general in order to provide the freedom for the user to use it...

7/3,K/48      (Item 2 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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08306639      SUPPLIER NUMBER: 17781852      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**IQ offers objects for end-users. (IQ Software's IQ Objects 5.1 query and report writing tool) (Software Review) (Evaluation)**

Tyo, Jay

InformationWeek, n556, p101(1)

Dec 4, 1995

DOCUMENT TYPE: Evaluation      ISSN: 8750-6874      LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 645      LINE COUNT: 00052

... base accesses only one data source. IQ provides a knowledge base editor that reads the **schema definition** of a target **database** and **automatically** creates objects for the fields in the **database** and **relationships** for each of the **table** joins. These are then fine-tuned by the administrator.

In my testing in InformationWeek's...

7/3,K/49      (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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08131068      SUPPLIER NUMBER: 17400691      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**TrueAccess an easy, honest Windows/Macintosh querying tool. (Blyth Software's TrueAccess 2.0 database access software) (Software Review) (Evaluation)**

Dowgiallo, Ed

InfoWorld, v17, n37, p99(1)

Sep 11, 1995

DOCUMENT TYPE: Evaluation      ISSN: 0199-6649      LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 662      LINE COUNT: 00056

...ABSTRACT: an administration feature that allows for the generation of a repository for query data. Vista **definition** is accomplished via a diagram style interface, but the underlying database's referential information is not utilized for automatic **table linking**. TrueAccess does not adequately provide for the creation of identical column names during repository **construction**, failing to separate them by **table**. **Automatic linking tables** only occurs between identically named columns, and poorly designed output formatting features ultimately make TrueAccess...

7/3,K/50      (Item 4 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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07938647      SUPPLIER NUMBER: 17053448      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Client-side confusion: advanced client/server tools. (Borland's Delphi Client/Server, Powersoft Corp's PowerBuilder Enterprise 4.0 and Symantec Corp's Team Enterprise Developer 2.0) (includes related articles on**

testing and extensions to SQL) (Software Review) (Evaluation)

Dowgiallo, Ed; Johnson, Amy H.; Carreon, Julia C.

InfoWorld, v17, n24, p52(10)

June 12, 1995

DOCUMENT TYPE: Evaluation

ISSN: 0199-6649

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 12345 LINE COUNT: 00994

... case, this was simple, as we were able to use Enterprise Developer's re-engineering **function** to read our Watcom **database** and **automatically** construct the ER diagram from the existing **table definitions** and referential **integrity** constraints.

We then modified the ER diagram to include our editing rules, business rules, and...

7/3,K/51 (Item 5 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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07852871 SUPPLIER NUMBER: 16824745 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Open Data Introduces "DATA ACCESS + NAVIGATION" as a breakthrough solution to unlock corporate data for business users; FindOut! 2.0 gives end users intuitive and immediate access to corporate databases; eliminates IS need to pre-program or respond to follow-on queries.

Business Wire, p5151094

May 15, 1995

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 1300 LINE COUNT: 00124

... the Business Dictionary, build reports and create menus with business subject-based information buttons. The **Builder** **automatically** defines a class for each **database table**, **creates** attributes for the columns in the chosen **tables**, derives business **relationships** from the primary-and foreign-key **definitions** in the **database** catalog, **generates** all **database** mappings **automatically**, **creates** navigable standard business reports for each class automatically, and creates data finders for finding specific...

7/3,K/52 (Item 6 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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07576484 SUPPLIER NUMBER: 15875813 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Searching natural language systems: searchers know thy engine. (includes related article on new natural language search engines)

Feldman, Susan E.

Searcher, v2, n8, p34(5)

Oct, 1994

ISSN: 1070-4795

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 4390 LINE COUNT: 00349

... uses a Mosaic interface, which positions them well for the Internet market. Koll emphasizes the **dynamic** aspects of a **database** and suggests that **building** in concept maps (hardwired semantic nets) doesn't allow the system to operate on "the..."

...capability builds a semantic web "on the fly." This allows a changing, dynamic set of **relationships** to evolve with the **database**. He says that the patterns of how words are used within a text are more important than their dictionary **definitions**.

Personal Librarian also includes a Boolean searching mode and a thesaurus building capability. I have...

7/3,K/53 (Item 7 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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07186676 SUPPLIER NUMBER: 15040255 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Asymetrix offers database shortcut that works. (InfoModeler 1.0 database  
design software) (Software Review) (Evaluation)  
Gryphon, Robert  
InfoWorld, v16, n9, p93(1)  
Feb 28, 1994  
DOCUMENT TYPE: Evaluation ISSN: 0199-6649 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 554 LINE COUNT: 00043

...ABSTRACT: InfoModeler translates into technical terms. After users have specified a few more details, the program **generates database definition** scripts **automatically**. Database designers need worry no more about committing errors or violating normalization principles: by following InfoModeler...

7/3,K/54 (Item 8 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

06682092 SUPPLIER NUMBER: 14187917 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Access: version 1.0. (Microsoft Corp.) (Software Review) (one of four  
evaluations of Windows database management tools in 'Windows Databases  
Get With the Program') (Evaluation)  
Darling, Charlie  
InfoWorld, v15, n33, p72(3)  
August 16, 1993  
DOCUMENT TYPE: Evaluation ISSN: 0199-6649 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1672 LINE COUNT: 00127

... caption, default value, a validation rule and error message, and indexing options.

To complete the **definition** of your Access **database**, you can use the **Relationship** command to define one-to-one and one-to-many **relationships** among your **tables**. Making Access aware of these **relationships** allows it to (optionally) enforce referential **integrity** among **tables** and to **automatically generate** the appropriate JOIN clauses when you build a multi-table query.

Access uses a multirecord...

7/3,K/55 (Item 9 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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03326298 SUPPLIER NUMBER: 06124569 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Building composites with computers.  
Rouse, Nancy E.  
Machine Design, v59, n26, p108(5)  
Nov 12, 1987  
ISSN: 0024-9114 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 1680 LINE COUNT: 00142

... another utility that creates the formal material definition.

Another module will include standard material property **definitions**, such as ply composition, of both metallic and composite materials. The module will allow users to add or delete material property **definitions**. The design module, in which the data regarding ply layup is stored, will point to the materials property module so that geometric and design data will be **automatically associated** with ply **table** data.

A prerprocessor will **create** the proper finite-element data for a variety of programs. For instance, if MSC/Nastran is used, the program will prepare the nodal **definition** for analysis. If a program such as Probe from Noetic Technologies, St. Louis, is used, the prerprocessor will provide

a geometric **definition** . A postprocessor will sort the information obtained in the analysis, and a spreadsheet will be...

7/9/34 (Item 34 from file: 275)  
DIALOG(R) File 275:Gale Group Computer DB(TM)  
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01261871 SUPPLIER NUMBER: 07079997 (THIS IS THE FULL TEXT)  
Index interface links CASE and IBM's DB2. (Index Technology  
Corp.) (computer-aided software engineering) (product announcement)  
Feuche, Mike

MIS Week, v9, n43, p23(2)  
Oct 24, 1988

DOCUMENT TYPE: product announcement ISSN: 0199-8838 LANGUAGE:  
ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 872 LINE COUNT: 00073

ABSTRACT: Index Technology Corp is providing an interface between its computer-aided software engineering (CASE) tools and IBM's DB2 data based management system. The link between the company's popular Excelerator CASE tool and DB2 allows logical design data produced in the Index product to SQL-based physical design data used to implement DB2. The interface can create DB2 tables from definitions created in Excelerator. The product is designed to eliminate the manual effort now involved in transferring design and data requirements from one product to the other. A site licensing fee for the XL-Interface product begins at \$7,500.

TEXT:

Index Interface Links CASE and IBM's DB2 CAMBRIDGE, Mass.--The competitive pace of the computer-aided software engineering (CASE) marketplace picked up speed last week with an announcement of a link between Index Technology Corp.'s Excelerator systems analysis and design software and the DB2 relational database management system from International Business Machines Corp.

Excelerator, with more than 12,000 units sold worldwide, has the largest installed base of any CASE product.

The introduction of the new link -- called XL/Interface for DB2 -- was widely seen by observers as confirming a growing industrywide trend for CASE vendors to unveil tools that bridge the gap between application design and implementation functions.

"this is a major step forward for the CASE industry, as we tie together the future of two of the most significant products in the field of software development," said Chris Gretjak, Index Technology vice president of marketing and sales. DB2, which currently has over 2,200 installations worldwide, is IBM's leading relational database management system for mainframe software applications.

Jerrold M. Crochow, vice president of American Management Systems Inc., an Arlington, Va.-based consulting and software firm, said, "Having in one tool the ability to do the logical as well as the physical design of my databases, and to provide DB2 instructions for setting up these databases, is exactly the way to go."

The Index announcement followed by one week the introduction of another IBM-oriented integration product combining the new Teamwork for OS/2 front-end product from Cadre Technologies, Providence, R.I., and the widely used Telon code generator from Pansophic Systems Inc., Oak Brook, Ill. (see Oct. 17 MIS Week, page 32).

More Than an Interface

Commenting on the new offering, Gretjak said, "This is more than just an interface. It really is a product designed to help you build DB2 databases."

The XL/Interface for DB2, Gretjak noted, allows database administrators for the first time automatically to transform logical design data produced in Excelerator into physical design data -- specifically, into structured query language (SQL), which can be used to implement a DB2 database.

The link's DB2 utilities automatically create DB2 entities. For example, the link can automatically create DB2 tables from logical record definitions developed in Excelerator and then enable the database administrator to prototype views and table spaces.

The interface, Gretjak added, eliminates the need to manually re-key design and data requirements, thereby increasing productivity and reducing

*Relined*

design discrepancies and system errors. In addition, the link provides access to Excelerator's analysis and ad hoc reporting capabilities for improving the quality of database designs.

The link incorporates a version of the Excelerator XLDictionary customized to specifically describe and document entities for DB2 applications. It includes seven new entity types tailored for DB2, including column, table, view, index, table space, storage group and database. Changes to the dictionary are automatically tracked and the individuals who made them are identified.

Also included are reporting tools, not available in the DB2 catalogue, for verifying the completeness and accuracy of database designs. In addition to Excelerator's standard dictionary output and user-defined reports, the link generates cross-reference and content reports that ease the transition from logical to physical design.

XL/Interface, which is available immediately, runs on all IBM PCs and compatibles. The cost of a site licensing fee is \$7,500. A second interface, announced earlier this month, with Advanced Business Technology Corp.'s Project Workbench project management system will be incorporated in a new version of Excelerator to be announced and made available late this year or in early 1989. The new version includes such features as use of color throughout the product, expanded analytical capabilities, extensive dictionary browsing and other enhancements of functionality.

#### CSP Hook in Wings

According to Gretjak, the activity leading to the development of XL/Interface for DB2 was inspired by work done by an Excelerator user, Arco (Atlantic Richfield) in Dallas, to support moving of data from an IMS DB/DC database into Excelerator and then to generate DB2 tables, views, and other information for the DB2 catalogue.

The combination of Excelerator and DB2 still lacks a code generator to generate actual applications and provide complete coverage of the application life cycle. This capability will be provided in the future by IBM's Cross System Product (CSP), currently undergoing substantial redevelopment and enhancement.

Index, Gretjak noted, has already developed a version of Excelerator that supports the diagramming techniques required for creation of CSP applications. However, interface standards for moving information in and out of CSP that would allow Index and other CASE vendors to link their products to CSP have yet to be published by IBM.

"Our goal is to continue to expand our coverage of all aspects of the systems development life cycle through integration with other strategic products," Gretjak said. He noted that the interface's ability to generate DB2-compliant SQL also makes it compatible with other leading database management systems, including Oracle Corporation's Oracle, Relational Technology's Ingres (Version 6.0) and IBM's SQL/DS.

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7/9/50 (Item 4 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB  
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07938647 SUPPLIER NUMBER: 17053448 (THIS IS THE FULL TEXT)  
Client-side confusion: advanced client/server tools. (Borland's Delphi  
Client/Server, Powersoft Corp's PowerBuilder Enterprise 4.0 and Symantec  
Corp's Team Enterprise Developer 2.0) (includes related articles on  
testing and extensions to SQL) (Software Review) (Evaluation)

Dowgiallo, Ed; Johnson, Amy H.; Carreon, Julia C.  
InfoWorld, v17, n24, p52(10)

June 12, 1995

DOCUMENT TYPE: Evaluation ISSN: 0199-6649 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 12345 LINE COUNT: 00994

ABSTRACT: Powersoft Corp's \$3,295 PowerBuilder Enterprise 4.0 and Symantec Corp's \$3,295 Team Enterprise Developer 2.0 tie for the lead in a comparison of three client-side development environments. Borland's \$1,999.95 Delphi Client/Server comes in at a close third. The products are tested in six areas of application design performance, including depth of data repository, ease of generating transaction-processing logic, quality of decision-support facilities, ability to simplify application maintenance, support for team-developed utilities and provisions for writing an application that accesses multiple heterogeneous databases. A detailed product-comparison chart is provided.

TEXT:

COMPARED:

Delphi Client/Server  
Borland International Inc.  
PowerBuilder Enterprise 4.0  
Powersoft Corp.  
Team Enterprise Developer 2.0  
Symantec Corp.

OK, so you're some corporate developer named, say, Jim -- James Tiberius Martin, to be exact. And you're boldly going where no programmer in your company has gone before, only this voyage is an exploratory mission because all your star map has printed on it is a big warning: uncharted territory. And you're feeling a little lost and scared because your ship, which seemed so big and safe and powerful while warping around known space in the Alpha Quadrant, has developed a few groans and rattles that remind you that perhaps it isn't the best idea in the universe to pit its capabilities against the frequent space/time anomalies you encounter as you explore the strange new world of advanced client/server computing.

We know how you feel. After extensively testing three client-side development environments -- Borland International Inc.'s Delphi Client/Server, Powersoft Corp.'s PowerBuilder Enterprise 4.0, and Symantec Corp.'s Team Enterprise Developer 2.0 -- we're as confused as you are about which is the best product to use for writing the next generation of client/server applications. None of these products had the right combination of sound fundamental methodology, blazing application run-time speed, extensive database awareness, effortless automation features, easy-to-program flexibility, and useful tools and utilities that we, in our obsessive perfectionism, impatiently sought. Our final results ended in a dead heat between PowerBuilder and Enterprise Developer; Delphi ran a close third.

SCANNING WITH LONG-RANGE SENSORS. We probed 1,000 InfoWorld readers involved in using or buying application development tools to find out how their companies use client/server tools. We then wrote our test plan for this comparison based on their replies. We tested these products in six key areas of application design performance -- the depth of the data repository, the ease of generating transaction-processing logic, the quality of the decision-support facilities, the capability to simplify application maintenance, support for team-development utilities, and the ways that they allowed us to write an application that simultaneously accessed multiple heterogeneous databases.

In addition, we performed three speed tests. The query test looked at

the capability to take data from the server; the report test was designed to exercise the products' data manipulation and formatting capabilities; and the form browsing test timed how long it took to repaint a user-interface screen, which measures run-time execution speed. We also rated the products based on our standard categories of documentation, support, and pricing.

**THE NEUTRAL ZONE.** In between classic Star Trek and Star Trek: The Next Generation, we watched a lot of reruns. That's what advanced client/server tools are: reruns of well-known products that fill the gap while we're waiting for a whole new show -- second-generation client/server tools -- to debut on Windows platforms.

"None of these tools are second generation yet," states Evan Quinn, manager of third-generation language and development environment research for International Data Corp., a market analysis company in Framingham, Mass.

"I could build good shrinkwrap software with Delphi," Quinn says. At this point, Delphi is a professional engineering tool. PowerBuilder primarily sits in the departmental universe and is inching its way to enterprise level. The speed of the current version of Enterprise Developer limits it to a pure desktop play, according to Quinn.

Before these tools can cross over the neutral zone into future stardom, they're going to have to add groupware for developers, tighten their interfaces with the back-end databases, eliminate the remaining replication among servers, and access data where it lives, Quinn says.

Even then, rerun tools won't be second generation, because waiting on the other side of the neutral zone is -- no, not Klingons -- application partitioning. This is the core difference between advanced and second-generation client/server tools; the second generation of client/server tools is no longer content separating the GUI and the application. Now the application logic is split into smaller pieces and placed anywhere in the network. Life just got more complicated.

**HELM, LAY IN A COURSE.** Although we can't give you a resounding buy recommendation, we aren't chagrined. During our research, we found that the market is maturing and many of the potential buyers of this class of products are just as lost in space as we are.

"We know moving our application to client/server won't happen overnight," says Michael Campbell, a data operations manager for Solon, Ohio-based Anderson DuBose, which distributes supplies to McDonald's restaurants. Data integrity during the transition needs to be thought out carefully, Campbell explains. "We want the information to flow as transparently as possible. It'll be slow and tedious, but hopefully we'll end up with a better process."

Another reason many corporations are not operating in a client/server environment is cost. Hiring programmers to rewrite existing applications and acquiring the necessary hardware and software for a client/server installation can strain the budget of even the healthiest IS department.

A strategy some readers' companies have adopted is to make the move step by step. For example, they set up the network one fiscal year and purchase client hardware in the next budget cycle.

**VOYAGING IN THE DELTA QUADRANT.** All of the readers we spoke with had a good grasp of what client/server computing is: A network of computers (clients) that get information from the server where information is housed. Our readers also pegged the benefits as better data integrity, providing a larger number of users with easy access to more information than ever before, and better performance. Sounds great, right? Time to throw a spanner into the dilithium crystals.

Without changing the fundamental definition of client/server computing, we've identified at least three different flavors of the technology. The first is when applications run on the server, the data processing also occurs on the server, and the results appear on the client's screen. The second derivation is when data is stored on the server and an application running on the client accesses that data and returns it to the client for processing. The third flavor, cooperative or peer-to-peer client/server, is when the computers on the network share each other's resources on an equal basis.

**SAFELY IN SPACEDOCK.** While you wait for the right time and price to move to second-generation client/server technology, what can you do to protect the enterprise? You need to write applications today or face a



mutiny from cranky end-users. But you don't want to make a decision you'll regret a couple of stardates from now.

If you can quell the mutiny, stick tight. Wait until the market shakes out before picking your client-side tool. Client tools aren't standardized the way back ends are. If you want to switch back ends, you can -- not effortlessly, but without disaster. You can't get rid of a client application without rewriting the program or creating a legacy app.

If you've already invested in an advanced client/server tool, stick with it for now. Otherwise you risk going through the trauma of switching today, only to repeat the horror in another year or two.

Captain your enterprise safely during its journey, and maybe you'll get a promotion to admiral.

Ed Dowgiallo is president of The Poconos Encampment, a database consulting group in northeastern Pennsylvania. His Internet address is ed--dowgiallo@infoworld.com.

Product overview

Delphi Client/Server

Borland International Inc.'s Delphi is a Cadillac implementation of an object-oriented native machine-code compiler living within an integrated development environment. It is accompanied by what object-oriented aficionados have long looked for in other language-centric tools such as C++ compilers and Smalltalk interpreters -- integrated utilities and object classes that support SQL application development.

The kicker is that Delphi is built around Object Pascal. The unusual choice of language could hinder market acceptance in a field dominated by C++ products. Borland rose to prominence in the mid-80s based on the surging sales of Turbo Pascal; we think the company will have to do some clever marketing to repeat that success. And we could very well be wrong about Borland's chances; remember that Bill Gates resurrected the Basic language with Microsoft Corp.'s Visual Basic product.

PowerBuilder Enterprise 4.0

A quick scan of help-wanted ads leads us to the conclusion that anyone who knows how to program with Powersoft Corp.'s PowerBuilder can always find a job. This version of PowerBuilder shows its heritage as a first-generation client/server tool, with a modest amount of automation and a strong reliance on the developer's writing custom applications with its scripting language. Because of PowerBuilder's popularity in the first-generation SQL front-end market, many developers are already familiar with its scripting language, which is roughly based on C syntax.

PowerBuilder's popularity is due in part to its flexibility. With Version 4.0, Powersoft continues to expand the functionality of the tool. Unfortunately, the more features it has, the more PowerBuilder gobbles resources. At this point, a machine with 16MB of RAM is a necessity if you want to work efficiently with large data sets.

Team Enterprise Developer 2.0

Symantec Corp.'s Enterprise Developer is an example of the emerging class of Windows-based, second-generation client/server development tools. Right now we'd call it a 1.5-generation tool.

Enterprise Developer is built around a repository and business model that are presented in graphical form as an entity-relationship diagram. All the metadata for a project must be stored in this repository before it can find its way to forms and reports. The program sports a variety of rapid application development capabilities, but customizing the default components will be difficult until you master the scripting language.

Enterprise Developer's scripting language is an object-oriented one that bears more of a resemblance to Ingres' Windows4GL than it does to C++ or Pascal. The result is a highly productive tool that incorporates some of the best ideas of Integrated CASE without the onerously extended analysis time.

Data repository

Delphi Client/Server: POOR

Delphi does not make use of a repository per se. Specifically, it lacks a tool that gives a graphical representation of the database schema.

The closest thing to a repository Borland offers is a significantly souped-up integrated development environment. All the extended attributes concerning columns and tables can be incorporated into appropriate objects that are reusable, but this does not constitute any sort of repository in the classic sense of the word.

Delphi is a major improvement over previous object-oriented compilers in that it provides a class library with objects designed for talking to relational databases. The TDatabase, TTable, TQuery, and TStoredProc objects encapsulate the bulk of Delphi's database manipulation capabilities. But without a repository, we spent a lot of time later in the application cycle working with these objects to extract database information that the other products conveniently stored in a central repository.

Delphi relies primarily on Open Database Connectivity (ODBC) and Integrated Database API (IDAPI) for connectivity. Performance suffers when you're running high volume transactions using generalized drivers such as ODBC, so we preferred the native drivers in IDAPI.

PowerBuilder Enterprise 4.0: GOOD

We started our PowerBuilder application by constructing a database component. We did this by defining an ODBC link to our Watcom database and then using PowerBuilder's database painter to select the tables we wanted included in our application.

As we chose tables, the database painter provided the desired graphical display of the database schema by placing a pictorial representation of the table, its primary key, foreign keys, and indexes on-screen. Lines automatically added to the diagram linked the corresponding primary keys and foreign keys between master and detail tables.

Double-clicking on a table opened a table definition dialog, which, in addition to giving us column definitions and key definitions, gave us access to the extended attributes for columns. The extended attributes include edit styles, display formats, and validation rules, all of which are stored in a PowerBuilder repository that consists of special PowerBuilder tables that can reside in the target database. In this way, PowerBuilder offers a slimmed-down version of a centralized model.

Other types of painters were also included for view management, data manipulation, database administration, and data migration. In this area, and all the other areas as well, PowerBuilder could be improved by reworking its interface, which doesn't look much different from the one in Version 1.0. Enterprise Developer managed the same level of functionality with a cleaner interface.

Team Enterprise Developer 2.0: EXCELLENT

We found using Enterprise Developer to be absolutely delightful. We began our application by constructing a business model in the form of an entity-relationship (ER) diagram, which is the first step required by Enterprise Developer. In our case, this was simple, as we were able to use Enterprise Developer's re-engineering **function** to read our Watcom **database** and **automatically** construct the ER diagram from the existing **table definitions** and referential **integrity** constraints.

We then modified the ER diagram to include our editing rules, business rules, and some display information (default column headings for reports, for example). The ER diagram provided us with an easy way to traverse the repository, and it was no problem for us to drill down to detail about columns and rules by double-clicking on entity objects or relationship lines.

Once the ER diagram was built to our satisfaction, Enterprise Developer allowed us to select a target database, and it generated the appropriate Data Definition Language (DDL) for us. In this case, we generated DDL for Oracle. Enterprise Developer took advantage of some of Oracle's native capabilities by transforming many of our business rules into Oracle database triggers.

*different*

13/9/22 (Item 3 from file: 636)

DIALOG(R) File 636:Gale Group Newsletter DB(TM)  
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02434343 Supplier Number: 44849312 (THIS IS THE FULLTEXT)

**GRAPHICAL PROGRAMMING: SQL STUDIO VERSION 2.0 EXTENDS VISUAL INTERFACE TO ORACLE7 FOR PROGRAMMERS & DBAS**

EDGE: Work-Group Computing Report, v5, n217, pN/A

July 18, 1994

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 815

TEXT:

Stanford Technology Group Inc. Tuesday announced the immediate availability of SQL Studio Version 2.0 for Oracle7.

SQL Studio, the leading graphical programming environment for Oracle7, now provides more than double the number of features of Version 1.2. SQL Studio V2.0 provides visual editors for all of the key Oracle7 objects, including stored procedures, functions, packages, triggers, tables, constraints, indexes, views, roles, grants, sequences and more.

SQL Studio's new graphical object editors make it easy to create and edit table and index definitions against a live Oracle database. SQL Studio supports all key Oracle7 features, including table and column-level comments. With the click of an icon, SQL Studio reveals the Oracle transaction and storage parameters.

SQL Studio also manages all types of constraints, including primary key, foreign key, check, not null, and unique constraints. Administrators can enable or disable an existing constraint by clicking on an icon.

"Oracle customers are looking for graphical, easy to use tools to manage their databases," said Bhushan Fotedar, senior product manager at Oracle Corp. "Leveraging the advanced features of Oracle7, SQL Studio simplifies database work with its graphical desktop environment."

With SQL Studio users don't need to remember all of Oracle's data dictionary views. "SQL Studio provides the access to Oracle7 features that Oracle itself doesn't provide," said Tim Gertis of Xerox Inc.

**ADVANCED PROGRAMMING FEATURES**

SQL Studio's interactive programming environment now includes support for team development with a convenient "check in/check out" feature. Any set of code objects, such as stored procedures, can be automatically checked out to prevent other SQL Studio users from inadvertently modifying the same object at the same time.

DBAs can view the status of all objects and manually check in any object. SQL Studio also simplifies the debugging process by providing easier access to the output of Oracle7 procedures with its new DBMS Output Window.

**VISUAL EXPLAIN PLAN**

SQL Studio's new graphical Explain Plan feature makes a formerly intimidating and difficult Oracle feature extremely useful and easy to manage. With one click of the mouse, programmers and DBAs can view the access path for any SQL statement in a convenient outline format. SQL Studio automatically maintains the necessary Explain Plan table, and makes it easy to compare the plans of several different SQL statements.

SQL Studio saves the actual SQL text with the plan, along with any comments added for future reference. In addition, SQL Studio records the execution cost as returned by the Oracle cost-based optimizer, making SQL Studio a useful tool for database tuning.

"At Estee Lauder we are currently optimizing the queries executed by our Visual Basic programs," said Bob Levittan of Estee Lauder. "SQL Studio has been a real time saver for me in my analysis of the reports. I can view all the relevant Oracle objects without the need to type involved SQL statements over and over again."

**POWERFUL SCRIPTS** SQL Studio's new scripting facilities enable users to run SQL scripts directly from their PCs. SQL Studio can run, pause, rewind and conveniently single-step through scripts. SQL Studio remembers the most recently executed scripts, making it convenient to rerun them later.

Users can also **create** scripts **automatically** based on their actual database definitions. This makes it easy to export the definition of a table from one **schema**, for example, and recreate it in another **schema**.

*automatically  
create  
scripts*

SQL Studio supports exporting entire sets of objects. In an environment with separate testing and production databases, a programmer with SQL Studio can export the **definitions** of all of the tables, indexes and views from a database with only a few mouse clicks.

#### ADVANCED ROLE MANAGER

SQL Studio's new Role Manager uses simple "drag and drop" techniques to administer Oracle7 roles and grants. DBAs can easily create new roles, and can drill down on a specific role to see which users have been granted that role.

The Role Manager also shows DBAs what system privileges have been granted to users and roles. To assign a system privilege to a role or user, users drag the privilege to the role or user and drop it with the mouse. The Role Manager supports all 83 of Oracle7's system privileges.

SQL Studio manages object privileges similarly: individuals can drill down in the role map to see what object privileges have been granted to users and roles. Users can easily grant, revoke and monitor all object privileges on tables, views, sequences, procedures, functions, packages and snapshots.

13/3,K/1 (Item 1 from file: 275)  
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02495701 SUPPLIER NUMBER: 73281312 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Rival Java tools on par for creation of business applications. (Software Review) (Evaluation)**  
Biggs, Maggie  
InfoWorld, 23, 16, 79  
April 9, 2001  
DOCUMENT TYPE: Evaluation ISSN: 0199-6649 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 1691 LINE COUNT: 00140

... that support for transparent persistence, which is based on the Java Data Objects standard, is included in this release. Among other things, developers can leverage **transparent** persistence to **create** Java-based persistent objects from **database schema** or add persistence to existing Java objects. Developers may also leverage transparent persistence support for Java Query Language to access data more easily.  
If XML...

...is what you need, Forte for Java is up to the task. It automatically parses XML files in the presence of a DTD (Document Type **Definition**), and it includes an XML-specific editor that makes modifying code a breeze.  
Although we usually prefer to use a text editor to write code...

13/3,K/2 (Item 2 from file: 275)  
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02352126 SUPPLIER NUMBER: 57761459 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**PowerTier exerts its midtier might: Easy-to-use tools, fast execution benefit your e-business. (Persistence Software's PowerTier for Enterprise JavaBeans 5.12) (Evaluation)**  
Fielden, Tim  
InfoWorld, 21, 47, 64  
Nov 22, 1999  
DOCUMENT TYPE: Evaluation ISSN: 0199-6649 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 1193 LINE COUNT: 00102

... aptly named the Object Builder. I found the graphical Object Builder extremely easy to use when entering information about my object model and its database **schema**.

Once both my mapping and **definition** were complete, PowerTier **automatically created** my entity beans. Mapping **database tables** directly to entity beans eliminates the need for specialized Java Database Connectivity (JDBC) or SQL coding. Furthermore, by encapsulating relational data as container-managed persistent...

13/3,K/3 (Item 3 from file: 275)  
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02025704 SUPPLIER NUMBER: 19046541 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**VisualAge for C++ for Windows. (IBM VisualAge for C++ for Windows 3.5 development package) (one of three evaluations of C++ development environments in "C++ Adapted for RAD") (Software Review) (Evaluation)**  
Gagnon, Gabrielle  
PC Magazine, v16, n3, p216(2)  
Feb 4, 1997  
DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 1116 LINE COUNT: 00101

... so very little coding is necessary.

Once it has encapsulated a new part, VisualAge can then generate the C++ code for the application. The part **definition** becomes portable, so that you can use it in any of the VisualAge platforms that support VisualBuilder and reuse it in other VisualBuilder applications.

Another major visual tool is the Data Access Class **Builder**. It **automatically** maps a **database table's schema** to a C++ class and lets you **select, insert, update, and delete** data without writing any SQL.

The Data Access framework, too, handles connection services...

13/3,K/4 (Item 4 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01696655 SUPPLIER NUMBER: 16197902 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Waxing Semantic.** (Wall Data Inc Chief Technologist David M. Kroenke, creator of the Semantic Object Modeling approach to application development) (Interview)

Kalman, David

DBMS, v7, n10, p60(6)

Sept, 1994

DOCUMENT TYPE: Interview ISSN: 1041-5173 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 5382 LINE COUNT: 00392

... year-and-a-half lead.

\* Wall Data Inc., 1011 Western Ave., Ste. 900, Seattle, WA 98104;  
206-4429257 or fax 206-621-7047.

Table 1. **Definitions**

Album -- A container window for related semantic objects in the Salsa software.

Profile -- A predefined semantic "chunk" that may consist of one or more-related...

...objects consist of attributes (fields) that describe the object. The software can then validate the models' logic, infer the complex relationships hidden within it, then **automatically generate** appropriate relational **database schemas** and applications.

Subtype Semantic Object -- A specialization of another object, where basic characteristics are inherited from a supertype object.

13/3,K/5 (Item 5 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01593732 SUPPLIER NUMBER: 13737865 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**New blood, new power.** (Cover Story) (Software Review) (overview of nine evaluations of relational databases) (includes related articles on Editors' Choices, Suitability to Task ratings, how products were tested, dBASE IV, Magic Software's Magic, CA-dBFast) (Evaluation)

Browning, Dave

PC Magazine, v12, n9, p108(34)

May 11, 1993

DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 8356 LINE COUNT: 00655

... changes from 25 to 30 characters, you simply change the length once in the Field type table and the change is reflected in the schema **definitions** throughout the application.

To Magic, programs are just more tables. An object-oriented Program Tree helps you visually trace program nesting and maintenance. Program subroutines...

...to define Magic-specific database schemes, which are used for all files regardless of format. Even .DBF files, for example, must have an associated

Magic **schema** . A Magic **schema** replicates the native structure, including information on field name, type, and length. Unfortunately, however, there is no way to ask the Magic package to read the **database** structures and **generate** the Magic **schema** **automatically** . Conversion is a manual process of redefining fields and attributes.

PROGRAMMING, BUT NO DEBUGGER

Programming is required for everything from browsing through files to data...

13/3,K/6 (Item 6 from file: 275)  
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01496864 SUPPLIER NUMBER: 11732436 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Popkin Software and Systems, Inc. (Product Announcement)**  
Data Based Advisor, v10, n1, p30(1)  
Jan, 1992  
DOCUMENT TYPE: Product Announcement ISSN: 0740-5200 LANGUAGE:  
ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 167 LINE COUNT: 00013

TEXT:

Popkin Software & Systems, Inc. has released an **automatic database schema generator** for System Architect, Popkin's CASE tool. The **schema** generator can generate database **schema** for these databases and supports these SQL environments: ANSI11 SQL, AS/400, DB2, Informix, Ingres SQL, Oracle, OS/2 Database Manager, Paradox, Progress, RDB/VAX, SQLBase, SQL Server, Sybase, and XDB. SQL support also includes the ability to generate compatible C type **definitions** and COBOL data structures, and Microsoft Windows dialogs and specified data structures. The add-on generates SQL table and index creates directly from System Architect's data dictionary. Data type inconsistencies are handled through an intelligent mapping process. The **schema** generator module is priced a \$795, and is available as an optional add-on to System Architect. (The stand-alone version of System Architect is...

13/3,K/7 (Item 7 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01437138 SUPPLIER NUMBER: 10907006 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The new world of object-oriented DBMSs: OODBMSs provide programming productivity and execution efficiency. (data base management systems) (includes related articles on specific products) (buyers guide)**

Watt, Peggy  
DBMS, v4, n6, p94(3)

May 15, 1991

DOCUMENT TYPE: buyers guide ISSN: 1041-5173 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 2088 LINE COUNT: 00175

... of development tools for GemStone, Facets allows programmers to generate screens, reports, menus, and other interface components. \$1000. Also for use with GemStone, GemStone Visual **Schema** Designer is a graphical tool for creating class **definitions** . A point-and-click interface allows users to manipulate classes and class relationships, class **definitions** , variables, and class hierarchy. Implemented in X-Window/OSF-Motif, the **schema** **produces** code which is **automatically** integrated into the **database** . GemStone Visual **Schema** Designer costs \$5000. Circle Reader Service Number 35. GemStone 2.5

Servio Corporation (415-748-6200)

Servio Corporation has released version 2.5 of its...

13/3,K/8 (Item 8 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)

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01367531 SUPPLIER NUMBER: 08747518 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Minicomputer: 'Gemstone' object DBMS now supports C++. (object data base  
management system) (New Products) (product announcement)  
Software Magazine, v10, n10, p83(1)  
August, 1990  
DOCUMENT TYPE: product announcement ISSN: 0897-8085 LANGUAGE:  
ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 151 LINE COUNT: 00013

... object database management system from Servio Logic Corp., Alameda,  
Calif., features performance improvements, support for C++ and the  
unveiling of GemStone Tools with a visual **schema** designer.

GemStone features improved caching, optimized algorithms, greater  
flexibility in retrieving complex objects, on-line backup and higher  
availability with continuous uptime.

Servio also announced a suite of visual programming tools, the first  
of which is the Visual **Schema** Designer, a graphical tool for creating  
class **definitions** in GemStone. Utilizing a point-and-click interface,  
users can directly manipulate classes and relationships between classes.  
Implemented in X Windows/OSF-Motif, the **schema** produces code that is  
**automatically** implemented into the **database**.

GemStone version 2.0 runs on Sun workstations, Digital VAX/VMS and  
DECstations under Ultrix. Pricing starts at \$12,000 for a four-user license  
...

13/3,K/9 (Item 9 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01252615 SUPPLIER NUMBER: 06758599 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
The evolution of R:Base. (data management) (includes related articles on  
SQL features, R:Base for OS-2, and R:Base for DOS overview) (evaluation)  
Wright, Victor E.  
PC Tech Journal, v6, n7, p86(15)  
July, 1988  
DOCUMENT TYPE: evaluation ISSN: 0738-0194 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 9838 LINE COUNT: 00779

... of seven user-assigned characters, an R:BASE-assigned number (1, 2,  
or 3), and the extension .RBF.

A data-dictionary file contains the database **schema** (structure  
**definition**) and disk and directory of the data **tables**; this file is  
**created automatically** by R:BASE as the developer defines the **database**.  
The developer can examine the contents of the data dictionary by querying  
the dictionary using the LIST command from the R:BASE prompt, or by...

13/3,K/10 (Item 1 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2002 The Gale group. All rts. reserv.

03706396 SUPPLIER NUMBER: 11980196 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
A window into CASE. (Popkin Software and Systems Inc.'s System  
Architect) (computer-aided software engineering) (PCs & Workstations:  
Company to Watch) (Focus on CASE) (Product Announcement)  
Francis, Bob  
Datamation, v38, n5, p43(2)  
March 1, 1992  
DOCUMENT TYPE: Product Announcement ISSN: 1062-8363 LANGUAGE:  
ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 763 LINE COUNT: 00059

...ABSTRACT: automating the front end of the systems development life  
cycle and the analysis, planning and design processes. System Architect



features several enhancements, such as an **automatic database schema generator** that **generates** structured Query Language (SQL) code, data **definitions** and Windows dialog boxes for 14 different relational databases. Additional features, including screen-painting and prototyping options, will be available in late 1992.

... to better interface with other companies' code generators.

Meanwhile, new options are being added for System Architect. The first, announced early this year, is an **automatic database schema generator** that **generates** Structured Query Language (SQL) code, data **definitions** and Windows dialogue boxes for 14 different relational databases. This month, Popkin also will announce a screenpainting and prototyping feature. And later this year, Popkin...

13/3,K/11 (Item 1 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2002 The Gale Group. All rts. reserv.

02667806 Supplier Number: 65698848 (USE FORMAT 7 FOR FULLTEXT)  
**NeoCore Wins Award for Best Technology Innovation.**  
Business Wire, p2786  
Oct 3, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 369

... again have to bring its system down to reconfigure a database," he says. "Anyone can intuitively use the extensibility of XML with no premeditation, no **schema** and no document type **definitions** (DTDs). Any XML document can be inserted with a single command while the network is running. Virtual **databases build themselves on the fly**."

Other applications using NeoCore technology include pattern matching, network security, web filtering, content scanning, software development kits and information management. NeoCore is exploring other applications...

13/3,K/12 (Item 2 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2002 The Gale Group. All rts. reserv.

02483921 Supplier Number: 61805689 (USE FORMAT 7 FOR FULLTEXT)  
**Intelligent Medical Objects Announces Sale of Virtual DBA(TM) Database Analysis Application to Quest Software.**  
PR Newswire, pNA  
April 14, 2000  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 572

... procedures that are on everyone's wish list when dealing with an install base of many similar databases. It offers a view into the structural **definition** of a relational database **schema** and provides feedback on a myriad of database properties. VDBA allows for reverse engineering of **database schemas**, analysis of **database** design flaws, **automatic creation** of build scripts, comparison between **database schemas** with **creation** of migration scripts, and many other valuable functions. It provides full support for Oracle's Oracle7 and Oracle8 (ORCL) databases, Microsoft SQL Server 6.5...

13/3,K/13 (Item 3 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
(c) 2002 The Gale Group. All rts. reserv.

01684614 Supplier Number: 50207126 (USE FORMAT 7 FOR FULLTEXT)  
**Visible Now Shipping EasyER/EasyOBJECT 2.0.**  
Business Wire, p7291003

July 29, 1998

Language: English Record Type: Fulltext

Article Type: Article

Document Type: Newswire; Trade

Word Count: 1184

... data modeling tool. Version 2.0's capabilities now include new support for the design and specification of database views, compare and alter of database **schemas** for iterative development, reverse-engineering of SQL DDL scripts, and HTML web publishing. EasyER/EasyOBJECT has all of the competitive features of more expensive database design tools is priced at only \$1,695.

EasyER/EasyOBJECT is a powerful, multi-level database design tool that allows users to **create** logical data models and also specify physical **database** design information. The **product** features **automatic database** and **schema generation**, accurate reverse-engineering of **databases**, powerful reporting facilities, and extensive on-line documentation. EasyER/EasyOBJECT is built on a client/server data dictionary, which functions as an integrated repository for the central storage of charts and object **definitions**. The repository allows stored information, such as entities, attributes, object-oriented (OO) classes, OO methods and relationships, to be quickly and easily accessed and used...

13/3,K/14 (Item 4 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

(c) 2002 The Gale Group. All rts. reserv.

01669550 Supplier Number: 50127999 (USE FORMAT 7 FOR FULLTEXT)

**Embarcadero's Data Modeling Solution, ER/Studio Version 2.6, Introduces**

**Major Performance and Meta Data Management Improvements**

PR:Newswire, p629SFM031

June 29, 1998

Language: English Record Type: Fulltext

Article Type: Article

Document Type: Newswire; Trade

Word Count: 793

... derive from them any number of physical database designs of the same or different DBMS platforms. Physical database objects for most popular SQL and desktop **databases** can be **automatically generated** or altered from the physical designs. Industry-leading comparison and synchronization capabilities assist in the organization and management of multiple design views. ER/Studio targets...

...of database modelers, administrators, developers, data architects and systems integrators who design or maintain complex data warehouse and OLTP applications.

Significant new features:

Export Model **Schema** and Data: ER/Studio 2.6 can export the metadata underlying data models to many SQL and desktop databases so users can gain direct access to metadata for customized reporting and analysis.

Import Data Dictionary: To support the re-use of business rule **definitions** at the enterprise level, users can now share data dictionaries between data models. For example, users can now define a domain for capturing customer numbers...

13/3,K/15 (Item 5 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

(c) 2002 The Gale Group. All rts. reserv.

01623451 Supplier Number: 48362630 (USE FORMAT 7 FOR FULLTEXT)

**Object Design Unveils Rapid Database Development Initiative**

PR Newswire, p0317NETU024

March 17, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

... of RAD tool, such as Visual Basic, Delphi, and PowerBuilder. This allows developers to spend more time creating application business logic instead of writing database **definition** and manipulation code.

#### Database Designer

The ObjectStore Database Designer is a GUI-based **schema** designer that lets programmers easily define and design their entire ObjectStore database. This easy-to-use interface helps programmers quickly define object class **definitions**, their data members, and class relationships in an intuitive drag-and-drop workspace. The **Database** Designer then **automatically generates** language-neutral and environment-neutral ObjectStore **schema** files.

#### Component Wizard

The second feature, the ObjectStore Component Wizard, uses the **schema** file **generated** by the **Database** Designer to **automatically create** ready-to-use ObjectStore components based on that **schema**. The initial release of the Component Wizard generates Visual C++ components, COM objects, and UNIX header/makefiles. Future plans include support for Java components and...

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13/3,K/16 (Item 6 from file: 621)

DIALOG(R) File 621:Gale Group New Prod.Annou.(R)  
(c) 2002 The Gale Group. All rts. reserv.

01359175 Supplier Number: 46234055 (USE FORMAT 7 FOR FULLTEXT)  
**SYBASE INTRODUCES MIDDLEWARE TO BRIDGE OBJECT-BASED APPLICATIONS WITH  
RELATIONAL DATABASES**

PR Newswire, p318SFM013

March 18, 1996

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 890

... ObjectCONNECT transforms simple relational data in SQL Server, and other leading databases, into complex business objects.

ObjectCONNECT also adapts easily to changes in business processes, **automatically generating** new objects based on **database schemas**. This allows the application to adapt to changing business conditions without recoding.

In addition to improved time-to-market and competitive gains, ObjectCONNECT can also...

...build efficient object-based applications, while leveraging existing technologies and database systems. Most corporations store their data in existing relational formats; ObjectCONNECT uses their existing **schema definitions** for mapping purposes. It creates object models from **schema** allowing new applications to be built that use existing data in new and productive ways.

#### Pricing and Availability

ObjectCONNECT for C++ will be generally available...

---

13/3,K/17 (Item 7 from file: 621)

DIALOG(R) File 621:Gale Group New Prod.Annou.(R)  
(c) 2002 The Gale Group. All rts. reserv.

01185437 Supplier Number: 42760921 (USE FORMAT 7 FOR FULLTEXT)

**EasyCASE Plus Version 3.1 Developer's Edition**

News Release, p1

Feb 18, 1992

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1159

... needs, the software brings them the benefits of CASE, including better maintainability, cleaner design,

and databases that better meet their customers' needs. Evergreen CASE Tools' **Schema** Generator supports both xBase and SQL dialects in a single product, making it the front-end CASE product to buy for an entire organization's...

...versions of the company's front-end  
"upper" CASE tools that feature a Windows-like graphical user interface (GUI).

The EasyCASE Plus Developer's Edition **automatically generates schemas**

( **database table** headers) from graphical objects on an entity relationship diagram (ERD) and their underlying **definitions** entered in the data dictionary. This capability ensures database developers of more accurate application design without tedious hand-coding and checking/verification.

Growing Use of...

...larger

database machines, including Oracle, DB2, Sybase, Rdb/VMS, Ingres and Informix. Support of minicomputer and mainframe SQL dialects means that conceptual modeling and physical **definition** of complex database systems can now take place on the PC, instead of on larger, more expensive workstations or mainframes, which often do not have the advanced tools necessary to easily lay out the database design. The

#### **Schema**

Generator creates SQL table generation scripts -- known as DDL (data **definition** language) -- to create the target database **schema** that can then be uploaded to production machines such as DEC VAXes, Unix workstations and IBM mainframes.

The user uses the chart editor to lay out a relational database design in graphic form and interacts with the data dictionary to define the layout of table structures and field **definitions**. The

**Schema** Type list allows the user to choose from a list of available dBASE and SQL **database** types. The **Generate Schema** command **automatically creates** the dBASE or SQL **schema**

, which can be viewed in

a window from within the chart editor. The user can then interactively modify the database model to create a correct **schema** prior to use by the target database.

Version 3.1 of EasyCASE Plus and EasyCASE Professional Now Available

Version 3.1 of Evergreen CASE Tools...

...products --

EasyCASE Plus and EasyCASE Professional -- are also now available. The upgrades include enhancements to the products' data modeling support, making possible integration with the **Schema** Generator module; ease-of-use enhancements to the data dictionary and its entry screens; improved performance through an easier-to-use, more consistent graphical user...

13/3,K/18 (Item 8 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01175346 Supplier Number: 42421247 (USE FORMAT 7 FOR FULLTEXT)  
CA UNVEILS CA-CONCEPTOR, AN UPPER CASE TOOL FOR CA-DATACOM, CA- IDMS AND  
CA-DB CLIENTS

News Release, p1

Oct-7-1991--

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 539

... added while in the graphics mode is automatically added to the internal data dictionary.

Upon completion of the design phases, CA-CONCEPTOR creates physical database **schemas** and application component **definitions**

"This allow developers to immediately create applications using those **definitions**, unlike other CASE products that only create reams of documentation," said Artst.

CA-CONCEPTOR also provides a complete graphical user interface which permits the applications and data design to be created with icons, pull-down menus and "point and click" technology.

CA-CONCEPTOR significantly reduces development time through the **automatic generation of database definitions**

From the information

derived during the design process, CA-CONCEPTOR generates SQL and non-SQL Data **Definition**

Language syntax which can be sent directly to the database management system to update.

Unlike other CASE tools that only provide a separate dictionary for...

13/3,K/19 (Item 9 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01059501 Supplier Number: 40235272 (USE FORMAT 7 FOR FULLTEXT)  
**CGI SYSTEMS, INC. INTRODUCES NEW CASE PC WORKSTATION SOFTWARE FACILITIES**  
News Release, p1  
Dec 14, 1987  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 978

... the product supports the widely-used Yourdon and MERISE design methodologies. Subsequent releases will support various other design methodologies.

Each methodology will be supported by **schema** and subschema template formats -- graphic depictions that guide users as they move through all stages of planning, analysis and design.

A draft mode allows designers to manipulate diagrams to explore alternative designs, add or modify textual descriptions -- and review a design approach before executing a final design and establishing a **definition** for the Active Enterprise Dictionary.

Another feature of PACDESIGN is a documentation generation facility that allows the assembly of blocks of written descriptions, diagrams and graphs with associated textual descriptions into complete, customizable documentation. **Tables** of contents and indices are **automatically generated**.

Full word processing support -- including choice of format, word wrap, and cut-and-paste -- is also included.

As the development process moves forward, programmers will...

13/3,K/20 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

03851051 Supplier Number: 48375318 (USE FORMAT 7 FOR FULLTEXT)

OBJECT DESIGN: Object Design unveils rapid database development initiative  
M2 Presswire, pN/A  
March 24, 1998  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 579

... of RAD tools: such as Visual Basic, Delphi, and PowerBuilder. This allows developers to spend more time creating application business logic instead of writing database **definition** and manipulation code.

Database Designer The ObjectStore Database Designer is a GUI-based **schema** designer that lets programmers easily define and design their entire ObjectStore database. This easy-to-use interface helps programmers quickly define object class **definitions**, their data members, and class relationships in an intuitive drag-and-drop workspace. The **Database** Designer then **automatically generates** language-neutral and environment-neutral ObjectStore **schema** files.

Component Wizard The second feature, the ObjectStore Component Wizard, uses the **schema** file **generated** by, the **Database** Designer to **automatically** **create** ready-to-use ObjectStore components based on that **schema**. The initial release of the Component Wizard generates Visual C++ components, COM objects, and UNIX header/make files. Future plans include support for Java components...

13/3,K/21 (Item 2 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

02635345 Supplier Number: 45335274 (USE FORMAT 7 FOR FULLTEXT)  
**HP SIMPLIFIES DISTRIBUTED CONFIGURATION AND CHANGE MANAGEMENT WITH HP  
OPENVIEW ADMINCENTER**

M2 Presswire, pN/A  
Feb 14, 1995  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1394

... define the objects with which to work, their attributes, their relationships to other objects and the actions to be taken - AdminCenter does the rest. AdminCenter **automatically** handles **database - schema definitions**, user- interface **creation** and presentation, logfile creation, checks against pre- determined policies and synchronisation.

Pricing and availability

HP OpenView Admin Center for HP-UX systems is expected to...

13/3,K/22 (Item 3 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02434343 Supplier Number: 44849312 (USE FORMAT 7 FOR FULLTEXT)  
**GRAPHICAL PROGRAMMING: SQL STUDIO VERSION 2.0 EXTENDS VISUAL INTERFACE TO  
ORACLE7 FOR PROGRAMMERS & DBAS**

EDGE: Work-Group Computing Report, v5, n217, pN/A  
July 18, 1994  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 815

... rewind and conveniently single-step through scripts. SQL Studio remembers the most recently executed scripts, making it convenient to rerun them later.

Users can also **create** scripts **automatically** based on their actual **database definitions**. This makes it easy to export the **definition** of a table from one **schema**, for example, and recreate it in another **schema**. SQL Studio supports exporting entire sets of objects. In an environment with separate testing and production databases, a programmer with SQL

Studio can export the **definitions** of all of the tables, indexes and views from a database with only a few mouse clicks.

ADVANCED ROLE MANAGER  
SQL Studio's new Role...

13/3,K/23 (Item 4 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

01641888—Supplier Number: 42553792 (USE FORMAT 7 FOR FULLTEXT)

**Popkin Ships Schema Generator**

CASE Strategies, v3, n12, pN/A  
Dec, 1991

Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 126

(USE FORMAT 7 FOR FULLTEXT)

**TEXT:**

Popkin Software and Systems is shipping an **automatic database schema generator** for its PC-based System Architect tool. The **schema** generator creates database schemata for 14 database management systems and SQL environments. Among those supported are ANSI SQL, DB2, Informix, Ingres SQL Versions 5 and 6, Oracle, Paradox, Progress, RDB/VAX, SQL Server, and Sybase. Support for SQL databases includes the ability to generate compatible C-type **definition** and COBOL data structures. Support is also provided for Microsoft Windows dialogues and specified data structures. An optional addition to System Architect, the **schema** generator module is being sold for \$795.

13/3,K/24 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

10326099 SUPPLIER NUMBER: 20918036 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**ObjectStore 5.1 stands out for data management. (Object Design's ObjectStore 5.1) (Software Review) (Evaluation)**

Biggs, Maggie

InfoWorld, v20, n28, pNA(1)

July 13, 1998

DOCUMENT TYPE: Evaluation ISSN: 0199-6649 LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 492 LINE COUNT: 00046

... the Component Wizard greatly simplified creating test data.

The Database Designer is a drag-and-drop interface that helps you define your database, including class **definitions**, and relationships. In addition, the Database Designer also generates **schema** files for you.

The Component Wizard takes the **schema** files **created** with the Database Designer and **automatically generates** components based on the **schema** information. My copy of this ObjectStore release supported components for Visual C++, Component Object Model objects, and Unix header/makefiles.

I was disappointed that the...

13/3,K/25 (Item 2 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

07840792 SUPPLIER NUMBER: 16919274 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Versant partners with ISR Global Telecom.**

Business Wire, p5091093

May 9, 1995

LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 669 LINE COUNT: 00070

...to build the next generation of element and network management systems based upon the TMN architecture. Both offerings include a comprehensive GDMO (Guidelines for the **Definition** of Management Objects) compiler capable of generating VERSANT ODBMS persistent **schema**, support for CMISE (Common Management Information Services), and support for industry-standard MIBS (Management Information Bases) like Hybrid Fiber Coax, SONET, SDH, and ATM.

"Over...

...Wetmore, director of Telecommunications at Versant. "ISR Global Telecom's object modeling expertise, coupled with VERSANT's support for TMN functionality, like event notification and **transparent database** replication, allow customers to **build** effective 24x7 management applications. ISR Global Telecom's advanced TMN toolkit enables organizations to harness the power offered by truly object-based agent and manager...

13/3,K/26 (Item 3 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

07601795 SUPPLIER NUMBER: 15983578 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Rational gets tailored for SQLWindows and ObjectPro; tool now generates source code. (Rational Software Corp's Rational Rose/SQLWindows, Rational Rose/ObjectPro modeling and design tools) (Brief Article) (Product Announcement)**

Mace, Scott  
InfoWorld, v16, n50, p32(1)  
Dec 12, 1994

DOCUMENT TYPE: Product Announcement ISSN: 0199-6649 LANGUAGE:  
ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 339 LINE COUNT: 00029

... that have servers and clients sharing a middle tier of objects that define business logic.

Using the tool, developers can graphically model their applications and **automatically generate** source code and **database schemas**, according to the company.

Rational Rose/SQLWindows -- to be sold only by Rational -- will generate source code for SQLWindows, as well as provide library files, functional classes, general windows classes, form windows, and dialog boxes. It will also generate Gupta SQLBase and Oracle Corp. Oracle7 database **definitions**.

Rational Rose/ObjectPro for Windows and OS/2 lets developers generate object-oriented source code for ObjectPro and is available from both Rational and Trinzic...

13/3,K/27 (Item 4 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2002 The Gale Group. All rts. reserv.

04117112 SUPPLIER NUMBER: 07977723 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Database design using computer-assisted software packages.**

Shen, Stewart N.T.  
Library Software Review, v8, n4, p179(12)  
July-August, 1989

ISSN: 0742-5759 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 8851 LINE COUNT: 00686

... blank as input for step (3).

SchemaGens-Ingres, SQL/DS, and IBM DB2  
Overview

Several SchemaGens have been produced by Chen and Associates. These modules **produce schema definition files automatically** for specific **database** management systems. The input files for the SchemaGens are the



files produced by Normalizer using ER-Designer output files, or the files produced by ER...

...IBM DB2 have the same operating procedure and are described together in this section. We found that the resulting output files agreed with the corresponding **schema definition** syntax, even though we did not get to test all the output files using those database management systems.

#### Running the SchemaGens

There is a common set of steps to run these SchemaGens to create an Ingres, SQL/DS, or IBM DB2 database schema **definition** file.

- (1) Load and run any of these SchemaGen modules.
- (2) Key in the type of the E-R model files which are used as...

20/3,K/1 (Item 1 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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02461630 SUPPLIER NUMBER: 67317442 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**CA Redesigns Data Modeling Process. (Product Announcement)**

COSTANZA, ALICIA

ENT, 5, 17, 24

Oct 25, 2000

DOCUMENT TYPE: Product Announcement

ISSN: 1085-2395

LANGUAGE:

English RECORD TYPE: Fulltext

WORD COUNT: 350 LINE COUNT: 00033

Building on its **ERwin** data modeling solution, **ERwin** Examiner speeds up database design and deployment by allowing enterprises to view their complex data relationships and establish data standards.

**ERwin** Examiner looks at data models and finds inconsistencies that affect database integrity. The **product** **creates** diagnostic reports, validates **database** design, recommends improvements, and **automatically** **creates** alternative scripts to implement design changes.

The diagnostics and reporting feature finds inconsistencies in the design and then organizes reports about the problems into columns...

20/3,K/2 (Item 2 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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02203637 SUPPLIER NUMBER: 20966768 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**ER/Studio Covers All the Data Bases. (Embarcadero Technologies ER/Studio**

**2.6) (Software Review) (Evaluation)**

Scälzo, Bert

PC Week, v15, n30, p47(1)

July 27, 1998

DOCUMENT TYPE: Evaluation

ISSN: 0740-1604

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 978 LINE COUNT: 00086

... DDL generation was equally sensible. The program first presents a series of DDL generation options. Then it can either directly apply the DDL to the **database** or **create** a SQL file, which can be **automatically** loaded into Embarcadero's interactive SQL tool, called ISQL. In fact, ISQL by itself was a simple database front-end tool -- the generated DDL was good enough for most real-world database designs. However, database administrators and more experienced SQL users will miss the user-customizable DDL generation features of **ERwin** and PowerDesigner.

ER/Studio's comparison and synchronization capabilities are impressive. The Model Update utility imports database differences into the model, and the database update...

20/3,K/3 (Item 3 from file: 275)

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02116431 SUPPLIER NUMBER: 19952449 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**INFORMATICA FINALLY TURNS ITS TORNADO VISION INTO PRODUCT.**

Computergram International, n3283, pCGN11050023

Nov 5, 1997

ISSN: 0268-716X

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 342 LINE COUNT: 00030

TEXT:

...products to plug in to the EDM (though so far only two, one for Sybase Inc PowerDesigner (formerly S-Designor) and Logic Works Inc's **ERwin**, are ready for release); and version 4.0 of the company's flagship PowerMart data Mart builder and manager. The new products, on the other hand, are PowerCenter, an ambitious true enterprise level piece of software

for networking and centrally managing Warehouses, and rev 1.1 of PowerCapture, a **product** for 'real - time' capture and refreshment of incremental **database** changes from an operational system into a Data Warehouse.

20/3,K/4 (Item 4 from file: 275)  
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02085136 SUPPLIER NUMBER: 19613918  
ERwin streamlines GUI and adds versatile features. (Logic Works' ERwin ERX 3.0 database modeling tool) (Software Review) (Evaluation)  
Stoughton, Alan M.  
InfoWorld, v19, n29, p96(2)  
July 21, 1997  
DOCUMENT TYPE: Evaluation ISSN: 0199-6649 LANGUAGE: English  
RECORD TYPE: Abstract

ABSTRACT: Logic Works' \$3,495 ERwin ERX 3.0 database modeling tool is an outstanding tool that suffers from a slight weakness in its support for front-end tools. One of...

...modeling is especially helpful for allowing members of a team to work on different aspects of a project. The program sets up an associative linking table to automatically solve many-to-many relationship logic problems, a truly helpful feature. ERwin also supports reverse and forward engineering. The Forms Wizard creates a basic form that needs substantial improvements before it can be offered to end users.

20/3,K/5 (Item 5 from file: 275)  
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02022187 SUPPLIER NUMBER: 18944210 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
How logical. (Logic Works' ERwin 2.6 database design tool) (Brief Article) (Product Announcement)  
DBMS, v9, n13, p38(1)  
Dec, 1996  
DOCUMENT TYPE: Brief Article Product Announcement ISSN: 1041-5173  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 365 LINE COUNT: 00034

... accelerates Visual Basic application development. The model-driven development environment integrates back-end database design with Visual Basic application construction. DataBOT uses a Logic Works ERWin data model to speed construction of Visual Basic applications and manage runtime data access. DataBOT automatically generates the SQL queries needed to access a database, and it manages transactions including locking and result-set management for optimized data access.

DataBOT requires a 486 or better, running Windows 95 or Windows...

20/3,K/6 (Item 6 from file: 275)  
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01934285 SUPPLIER NUMBER: 18272601 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
ERwin/ERX. (Logic Works Inc) (one of three evaluations of entity-relationship diagramming software in 'ER Diagramming Tools Power Through Perspective') (Software Review) (Evaluation)  
Butler, Brian  
PC Magazine, v15, n10, p194(2)  
May 28, 1996  
DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 1004 LINE COUNT: 00083

... defined the relationships between two entities by selecting the type of relationship desired and then connecting them.

Depending on the feature set of your target **database**, **ERwin** can **automatically create** triggers, constraints, stored procedures, and user-defined data types. The implementation of triggers is particularly impressive. **ERwin** not only provides a default trigger collection to manage typical parent/child relationships, but it gives you the additional flexibility of a trigger template language. Since all the **ERwin**-generated triggers are based on templates, you can meet specific data-model requirements by customizing the templates. A stored procedure editor is also provided but...

20/3,K/7 (Item 7 from file: 275)

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01804827 SUPPLIER NUMBER: 17155740 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Tools and utilities. (1995 Database Buyer's Guide and client/server sourcebook) (Buyers Guide)**

~~DBMS, v8, n6, p72 (29)~~

May 15, 1995

DOCUMENT TYPE: Buyers Guide ISSN: 1041-5173 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 45154 LINE COUNT: 03869

... stored procedures, and domain support. Includes server-based forward- and reverse-engineering of SQL and desktop database applications -- redesigning them for client/server. The intuitive **ERwin** Windows interface lets users draw a graphical, entity-relationship (ER) model of the business rules governing applications data using multiple fonts and colors. The ER diagram captures and displays all entities, attributes, relationships, primary and foreign keys, and index indicators.

**Automatically generates** SQL DDL statements for **tables** and indexes, referential integrity (primary key and foreign key), triggers, defaults, and domain/column constraints. Because the DDL is generated directly from the logical model...

20/3,K/8 (Item 8 from file: 275)

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01792152 SUPPLIER NUMBER: 17001969 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Client/server data-modeling products differentiate between user categories.**

**(InTek Technologies' Vivid Clarity and Logic Works' ERwin/ERX**

**2.1) (includes related article on test methods) (Software Review) (Evaluation)**

Gallagher, Bob; Mitchell, Lori

PC Week, v12, n22, p77(2)

June 5, 1995

DOCUMENT TYPE: Evaluation ISSN: 0740-1604 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1458 LINE COUNT: 00142

... basic data structures.

RECOMMENDATIONS: Database administrators who need to harness all the features of their database servers should evaluate an enterprise-caliber tool, such as **ERwin** /ERX.

Analyst's Choice: InfoModeler 1.5, ASYMETRIX CORP.

Reviewed Nov. 21, 1994

PROS: Easy-to-use interface guides end users through **database creation**; design-specification documentation is **created automatically**.

CONS: No support for simultaneous group design from separate workstations, requiring that all additions and modifications to the master design be performed on one workstation...

20/3,K/9 (Item 9 from file: 275)  
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01767453 SUPPLIER NUMBER: 15973223 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Client server. (network development and management packages) (Buyers Guide)**  
Microsoft Systems Journal, v10, n1, pS10(7)  
Jan, 1995  
DOCUMENT TYPE: Buyers Guide ISSN: 0889-9932 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 6539 LINE COUNT: 00568

... rich set of verbs for constructing distributed processing programs.  
\$1,000.

ERwin(R)/ERX, version 2.0 Logic Works Inc. (609) 252-1177 (800) 78-  
**ERWIN**

A tool for designing SQL database applications with the latest  
client/server features. ERX can also reverse-engineer existing SQL database  
applications. **ERwin** 's ER diagrams capture and display all entities,  
attributes, relationships, primary and foreign keys and index indicators.  
**ERwin automatically generates** SQL DDL statements for **tables** and  
indexes, referential integrity, triggers, defaults and domain/column  
constraints. \$3,295.

**ERwin** (R)/ERX for PowerBuilder, version 2.0 Logic Works Inc. (609)  
252-1177 (800) 78- **ERWIN**

A Windows based data modeling tool that speeds the design of  
PowerBuilder applications. The product links the development of the user  
interface in PowerBuilder via...

20/3,K/10 (Item 10 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01766169 SUPPLIER NUMBER: 16715820 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**ERwin for Oracle\*Case. (Logic Works Inc introduces logic data modeling tool  
that exports to Oracle\*Case) (Brief Article) (Product Announcement)**  
Software Magazine, v15, n2, p93(1)  
Feb, 1995  
DOCUMENT TYPE: Brief Article Product Announcement ISSN: 0897-8085  
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 100 LINE COUNT: 00009

Oracle.sup.\*]Case applications and diagrams can also be imported into  
**ERwin** for modification, viewing and reporting. **ERwin** 's Server FRE  
(forward and reverse engineering) directly links to Oracle **databases** . The  
**product automatically generates tables** , indexes, referential  
integrity, triggers, defaults and domain/column constraints and supports  
reverse engineering and migration from desktop and SQL databases to  
Oracle7.

**ERwin** for [Oracle.sup.\*]Case is available at an introductory price  
of \$5,295, a \$500 discount off the suggested list price.

20/3,K/11 (Item 11 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01713763 SUPPLIER NUMBER: 16301783 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**1994 DBMS Readers' Choice Winners.**  
DBMS, v7, n13, p53(3)  
Dec, 1994  
ISSN: 1041-5173 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1627 LINE COUNT: 00148

... Oracle Reports Generator produce applications from business  
parameters stored in Oracle's repository. Developers can use Oracle

Generators to produce working systems for prototype or **production** use. Oracle Forms **Generator** automatically creates form and menu layouts and incorporates **database** access, giving system developers control over application features such as layout and validation control. Oracle Reports Generator automatically creates reporting layouts and logic.

CASE/Modeling Tool

**ERwin** ERX, SQL, and DBF; Logic Works Inc.

Entity-relationship database-design tools. **ERwin** /ERX generates from a developer's graphical data model SQL Create Table and Create Index code for popular relational DBMSs. It offers flexible import/export...

20/3,K/12 (Item 12 from file: 275)

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01541041 SUPPLIER NUMBER: 12741445 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
14 steps to winning client/server development. (Application Development)

(Tutorial)

©Farrell, Geoff

Data Based Advisor, v10, n10, p93(5)

Oct, 1992

DOCUMENT TYPE: Tutorial ISSN: 0740-5200

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2771 LINE COUNT: 00213

... For example, the resulting table in a many-to-many relationship is hard to determine until later.

Once the tables are layed out, I use **ERwin** to create relationships between the **tables**. **ERwin** automatically transfers the primary keys from the parent **tables** to the child tables. **ERwin** also lets me create different types of relationships. For example, **ERwin** can define one-to-one, one-to-many, and many-to-many-relationships. Of course the many-to-many relationships result in a new table...

20/3,K/13 (Item 1 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou. (R)

(c) 2002 The Gale Group. All rts. reserv.

02651552 Supplier Number: 65323894 (USE FORMAT 7 FOR FULLTEXT)

Computer Associates Extends Leadership in Data Modeling With Debut of **ERwin Examiner**.

PR Newswire, pNA

Sept 20, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 767

... enables them to quickly troubleshoot their data models with a minimum of effort -- allowing them to manage their databases and deliver new applications more rapidly."

**ERwin Examiner** analyzes data models to identify inconsistencies that adversely affect database integrity and efficiency. By providing a comprehensive set of diagnostics, **ERwin Examiner** validates **database** design, recommends improvements and **automatically generates** alter scripts to quickly execute design changes. Detailed diagnostic reports illustrate structural inconsistencies in a conveniently organized format. **ERwin Examiner** also fine-tunes a user's database design to ensure a solid foundation for eBusiness application and data warehouse implementations.

" **ERwin Examiner** is the only product we have found that will check the quality of our database structure," said Ken Hughes, president of Relational Database Management...

20/3,K/14 (Item 2 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou. (R)

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02121949 Supplier Number: 55187971 (USE FORMAT 7 FOR FULLTEXT)  
**New Data Warehouse Tools From ICL To Reduce Development and Infrastructure Costs by Up to 60 Percent; Retailer Just For Feet Will Use Tools in Managing Two-terabyte Data Warehouse.**  
Business Wire, p0426  
July 19, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1096

... Track Development Toolkit will run on Sun Solaris Release 2.6 or Microsoft(R) Windows NT(R) 4.0. The model, from which code is **automatically generated**, is **created** using Platinum's **ERwin Database Design Tool**.

Disk Administration Toolkit

The Disk Administration Toolkit is delivered in two parts -- as a generic off-the shelf set of advanced monitoring and...

20/3,K/15 (Item 3 from file: 621)  
DIALOG(R) File 621:Gale Group New Prod.Annou.(R)  
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01625806 Supplier Number: 48374995 (USE FORMAT 7 FOR FULLTEXT)  
**Logic Works Announces Logic Links Partner Program.**  
Business Wire, p3241117  
March 24, 1998  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1337

... that many of the joint ETI and Logic Works customers would otherwise incur."

"As a part of the Logic Links program, Logic Works has expanded **ERwin**'s data warehouse template offerings to **automatically create database** models supported by DecisionSuite. This enhancement enables companies to hit the ground running in the development and deployment of OLAP systems," said Larry Ford, president...

20/3,K/16 (Item 4 from file: 621)  
DIALOG(R) File 621:Gale Group New Prod.Annou.(R)  
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01513318 Supplier Number: 47269128 (USE FORMAT 7 FOR FULLTEXT)  
**Logic Works launches Net Results Web strategic partner program.**  
Business Wire, p04031274  
April 3, 1997  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 999

... Logic Works Web strategy from competing solutions is its emphasis on building a strong database foundation for new data-driven Internet/intranet applications. Logic Works **ERwin** is an award winning visual **database** development environment that **automatically generates** a complete **database** server on all the leading DBMS platforms.

"Interactive applications are rapidly replacing the first generation Web 'billboard' sites and businesses need fast, reliable tools to design and maintain these databases," said John Bantleman, Logic Works executive vice president of marketing. " **ERwin** is the leading tool for designing high performance relational databases. In addition to helping you visually design a new database, ERwin is essential for re...

20/3,K/17 (Item 5 from file: 621)  
DIALOG(R) File 621:Gale Group New Prod.Annou.(R)

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01513317 Supplier Number: 47269127 (USE FORMAT 7 FOR FULLTEXT)  
**Logic Works and NetScheme Solutions join forces to provide instant Web database access.**

Business Wire, p04031273

April 3, 1997

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 862

... meet customers' differing intranet development requirements," explained John Bantleman executive vice president of marketing for Logic Works. "DataSite's model-driven data publishing capability complements ERwin's ability to generate a high-performance database server. Bundling these technologies provides immediate results. Organizations can quickly build a database on any of the...

...need a fast solution for creating the databases that drive our Web pages," said Mark Winter, president of Mark Winter Associates in Toronto, Canada. "The ERwin /DataSite bundle automates the intranet development process by creating the underlying database tables and dynamically generating the forms, queries, and HTML results pages. Using ERwin we can modify the database structure whenever our business requirements change and then quickly regenerate the DataSite application to automatically provide access to new tables...

20/3,K/18 (Item 6 from file: 621)

DIALOG(R) File 621:Gale Group New Prod.Annou.(R)

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01432751 Supplier Number: 46747331 (USE FORMAT 7 FOR FULLTEXT)  
**Logic Works and SELECT Software Tools Announce Strategic Partnership and Bidirectional Interface for Object-Relational Model-Based Development.**

Business Wire, p09301107

Sept 30, 1996

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 755

... modeling solution. SELECT Enterprise generates the interface and business layers to a variety of application development environments (Visual Basic(R), Forte, PowerBuilder(R), C++ etc.).

ERwin generates the data layer using RDBMS requirements that are passed through the bidirectional link. ERwin automatically generates tables, indexes, referential integrity and thousands of lines of stored procedure and trigger code for all major RDBMSs.

"The partnership will provide tremendous benefit to SELECT and ERwin users as both SELECT and Logic Works are working towards a common meta model. This alignment in our philosophy and product architecture will allow our...

20/3,K/19 (Item 7 from file: 621)

DIALOG(R) File 621:Gale Group New Prod.Annou.(R)

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01362637 Supplier Number: 46255549 (USE FORMAT 7 FOR FULLTEXT)  
**Logic Works introduces AOS -- The first model management system for workgroups.**

Business Wire, p3280034

March 28, 1996

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1163

... existing and future releases of Logic Works tools. The initial



release supports Logic Works' acclaimed ERwin/ERX data modeling tool.  
Future AOS-enabled versions of **ERwin** will include:

- o **ERwin** /ERX for AOS includes **ERwin** 's core set of database design and generation features. Server FRE (Forward- and Reverse-Engineering) generates a database directly from the data model, or takes an existing database and reverse-engineers it into a model. **ERwin** connects to all leading databases and automatically generates the thousands of lines of database -specific triggers and stored procedures that ensure data integrity.
- o **ERwin** /OPEN for AOS incorporates the same core functions as **ERwin** /ERX, but contains specifically-tailored links to client/server application development tools including PowerBuilder and Microsoft Visual Basic. Using these links, client-side extended attributes...

20/3,K/20 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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04384842 Supplier Number: 55218924 (USE FORMAT 7 FOR FULLTEXT)  
ICL: New data warehouse tools from ICL to reduce de development and infrastructure costs by up to 60%.

M2 Presswire, pNA

July 21, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1097

... The Fast Track Development Toolkit will run on Sun Solaris Release 2.6 or Microsoft Windows NT 4.0. The model, from which code is automatically generated, is created using Platinum's **ERwin** Database Design Tool.

Disk Administration Toolkit

The Disk Administration Toolkit is delivered in two parts -- as a generic off-the shelf set of advanced monitoring and...

20/3,K/21 (Item 2 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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03062566 Supplier Number: 46258130 (USE FORMAT 7 FOR FULLTEXT)  
**LOGIC WORKS: Logic Works AOS (Application Object Server) technical backgrounder**

M2 Presswire, pN/A

March 29, 1996

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 781

... existing and future releases of Logic Works' tools. The initial release supports Logic Works' acclaimed ERwin/ERX data modelling tool. Future AOS-enabled versions of **ERwin** will include:

- \* **ERwin** /ERX for AOS includes **ERwin** 's core set of database design and generation features. Server FRE (Forward- and Reverse-Engineering) generates a database directly from the data model, or takes an existing database and reverse-engineers it into a model. **ERwin** is also a real productivity tool, connecting to all leading databases and automatically generating the thousands of lines of database -specific triggers and stored procedures that ensure data integrity.

\* **ERwin** /OPEN for AOS incorporates the same core functions as **ERwin** /ERX, but contains specifically-tailored links to client/server application development tools including PowerBuilder, Microsoft Visual Basic and SQLWindows. Using these links, client-side extended...

20/3,K/22 (Item 3 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02850556 Supplier Number: 45778036 (USE FORMAT 7 FOR FULLTEXT)  
**LOGIC WORKS: Logic Works enters Unix case market with Sun Solaris version of data modelling tool**

M2 Presswire, pN/A

Sept 11, 1995

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 554

... a variety of critical issues facing UNIX application developers - most notably the need for rapid, intuitive database design in the relational database application development process.

**ERwin** /ERX for Solaris builds and generates stored procedures and triggers directly from the data model, resulting in dramatically reduced development time and improved data integrity. **ERwin** /ERX further enhances productivity by enabling developers to drive system tables from the logical data model and **generate tables**, indexes, defaults and domain column constraints - all **automatically**.

With **ERwin** /ERX for Solaris, developers can establish a link to the database server to forward-and-reverse-engineer relational database applications. Team development is facilitated with an open dictionary, from which data models can be checked in or out as SQL tables. **ERwin** /ERX for Solaris easily integrates with other members of the **ERwin** family, and supports Oracle, Informix, Sybase, CA-Ingres, DB2 and other leading relational database...

20/3,K/23 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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03678225 Supplier Number: 45199972 (USE FORMAT 7 FOR FULLTEXT)

**ERwin Database Modeler Enhanced**

CommunicationsWeek, p16

Dec 12, 1994

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 299

.. with new client/server applications and adding the ability to generate server database code.

The changes are part of the company's effort to expand **ERwin** 's modeling capabilities and tie them to a range of client/server development tools. These tools can more effectively work with reusable logical models from which code can be **automatically generated** for different brands of relational **database** management systems.

Microsoft Corp. Windows PC users graphically build what are known as Entity -Relationship (ER) diagrams that reflect a company's business rules and policies, said Frank Cicio, vice president of sales and marketing for Logic Works, based here. **ERwin** then generates the Structured Query Language code or the Data Definition Language code to build the application database on RDBMSs.

'ERwin is one of the...

20/3,K/24 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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02678493 Supplier Number: 43573737 (USE FORMAT 7 FOR FULLTEXT)

**ProTools: Analysis Pacts & Products Slated**

CommunicationsWeek, p6

Jan 11, 1993

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

... three months, according to Erwin. Competitor Network General Corp., Menlo Park, Calif., offers Expert Sniffer, a network analysis package that uses expert systems technology, but **Erwin** said the ProTools package will be more proactive.

In the next month or two, ProTools will release a 'solutions diskette' with some of the functionality that Expert Sniffer provides now, **Erwin** said. The disk will offer a duplicate address tracking system, **automatic generation of name-table databases** and a response-time system, he said. 'There will be six or seven of these custom extensions that we will offer to our customers.'

ProTools is also developing accounting software that will let network administrators charge departments for their use of network resources, **Erwin** said.

ProTools plans to add support for Fiber Distributed Data Interface, user-defined on-line 'push-buttons' for performing specified functions, a Microsoft Corp. Excel...

20/3,K/25 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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07826894 SUPPLIER NUMBER: 16889884 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Logic Works announces ERwin/OPEN.**  
Business Wire, p5021221  
May 2, 1995  
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 895 LINE COUNT: 00087

... Curt Monash, Ph.D., president of Monash Information Services. "Integrated database design -- and especially stored procedure generation -- is important no matter which tool you use. **ERwin /OPEN** makes it easier to achieve these objectives."

**ERwin** is a powerful application modeling tool that allows developers to create a graphical Entity-Relationship diagram of their data.

Through a direct Server FRE (Server Forward and Reverse-Engineering) connection to the **database** catalog, **ERwin** **automatically generates** the physical **database** schema code as well as stored procedures and triggers that enforce referential integrity. **ERwin** can use the same connection to reverse-engineer an existing database into a logical data model.

**ERwin /OPEN's** dictionary architecture speeds client/server development.

Taking database design a step further, **ERwin /OPEN** will let developers define PowerBuilder, SQL Windows or Microsoft Visual Basic extended attributes (such as class style, client-side validation, initial value, height, width...

20/3,K/26 (Item 2 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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07796101 SUPPLIER NUMBER: 16749344 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Logic Works introduces ERwin for SQLWindows.**  
Business Wire, p04041029  
April 4, 1995  
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 670 LINE COUNT: 00082

... tightly integrates with SQLWindows. Now SQLWindows developers can base their client/server applications on a quality database design, using familiar QuickObjects architecture."

At its core, **ERwin** is a powerful, easy-to-use database design tool that allows developers to create a graphical Entity-Relationship (E-R) diagram of their data. Through a direct connection to the DBMS called

.. Server FRE (Server Forward and Reverse Engineering), **ERwin** automatically generates a physical **database** structure, including **tables** and the stored procedures and triggers that enforce referential integrity.

**ERwin** can use the same connection to reverse-engineer an existing database into a logical data model. In addition, all **ERwin** products link to Logic Works' RPTwin, a graphical, banded report writer for easy report generation.

**ERwin** for SQLWindows takes the database design significantly further by allowing developers to specify both SQLWindows extended attributes (class style, client-side validation, initial value, justification...

24/3,K/1 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02564742 SUPPLIER NUMBER: 80845049 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**DATA MANAGEMENT & STORAGE TECHNOLOGY -- Even As The Economy Remains In The  
Slow Lane, Innovations Are Speeding Up For The Products No Business Can  
Do Without.**

Schuchart, Steven J., Jr.  
Network Computing, 77  
Dec 17, 2001

ISSN: 1046-4468 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 2766 LINE COUNT: 00217

... buying market. Like a home, a database is a necessary thing, and even in economic downturns, necessary things sell. Databases are vital technology components that **build** business. **Databases** feed Web-based **dynamic** content and facilitate page updates; they reuse data across multiple applications and reduce redundancy; they also store in **data warehouses** information that's culled, mined and aggregated by business applications and knowledge-discovery tools.

Yes, this market continued growing in 2000, albeit at a slower...

24/3,K/2 (Item 2 from file: 275)  
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02450812 SUPPLIER NUMBER: 67153205 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Oracle Aims To Bring Data Warehousing To Net Speed -- ORACLE9I DATABASE  
WILL INCLUDE DATA TRANSFORMATION, PERSONALIZATION, AND OLAP. (Product  
Announcement)**

Whiting, Rick  
InformationWeek, 42  
Nov 20, 2000

DOCUMENT TYPE: Product Announcement ISSN: 8750-6874 LANGUAGE:  
English RECORD TYPE: Fulltext  
WORD COUNT: 413 LINE COUNT: 00039

... release 2, a move that IBM, Microsoft, and NCR have already made. Says Agosta, "The strategic direction here is to drive data mining into the **database**."

Real - Time Data Warehouse Push  
New **product** plans from Oracle include:

-Oracle 9i: Built-in OLAP capabilities, real-time personalization engine

-Oracle9i release 2: Data-mining algorithms  
-Oracle Warehouse Builder 3.0...

24/3,K/3 (Item 3 from file: 275)  
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02339830 SUPPLIER NUMBER: 56080893 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Using Your OLTP Database for DSS? It May BE Time to Rethink. (Technology  
Information)**

Ballinger, Carrie  
Intelligent Enterprise, 2, 14, 1s  
Oct 5, 1999

LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 3642 LINE COUNT: 00298

... contrast, NCR Teradata, designed to handle the rigors of DSS, performs well with lowest common denominator tuning. According to one Teradata DBA Manager, "In our **data warehouse** space, we spend almost no time tuning the environment. We have a totally unregulated system, where a

client can ask any question any time he desires, and get the answer back in  
real time."

Because the Teradata database was created with unknown and ever-changing decision support queries as an important requirement, reliance on parameters, options or choices is kept to a minimum from the...

24/3,K/4 (Item 4 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02317739 SUPPLIER NUMBER: 55301722 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Business Process Re-Engineering with Informix Red Brick Warehouse.** (Informix's database access software) (Product Announcement)  
O'Donnell, Patrick  
Intelligent Enterprise, 2, 11, 47  
August 3, 1999  
DOCUMENT TYPE: Product Announcement LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 2057 LINE COUNT: 00185

... and security optimizations of the server, giving you maximum control and flexibility over the aggregate environment.

Vista analyzes usage and determines where aggregation can improve data mart performance, then efficiently creates aggregates that provide the best results without creating unnecessary tables. And, by transparently rewriting all queries submitted by users, aggregate rabies can be managed without changing end-user queries or applications.

Data Mart Maintenance and Administration  
Informix Red...

24/3,K/5 (Item 5 from file: 275)  
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02291303 SUPPLIER NUMBER: 54488307 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Data Tracker 3.0 Pays Attention to Details.** (Silvon Software's software) (Product Announcement)  
Webster, John  
MIDRANGE Systems, 12, 6, 31(1)  
April 26, 1999  
DOCUMENT TYPE: Product Announcement ISSN: 1041-8237 LANGUAGE:  
English RECORD TYPE: Fulltext  
WORD COUNT: 498 LINE COUNT: 00045

Central to DataTracker 3.0 is its ability to load greater amounts of information, in greater detail, into data marts, and also provide more frequent tabular updates of that data. This becomes crucial when users want to keep track of highly granular product life-cycle information. Even as large amounts of data get loaded into a data mart, DataTracker 3.0 can automatically and incrementally rebuild calculation tables. Many competing products must recalculate data tables less frequently, often overnight, a lengthy process that can interrupt the data-loading process, says John Hughes, VP of sales and...

24/3,K/6 (Item 6 from file: 275)  
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02257981 SUPPLIER NUMBER: 53503995 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Silvon Unveils DataTracker 3.0.** (Brief Article) (Product Announcement)  
ENT, 3, 1, -27(1)  
Jan 6, 1999  
DOCUMENT TYPE: Brief Article Product Announcement ISSN: 1085-2395  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 84 LINE COUNT: 00011

TEXT:

Silvon Software Inc. released version 3.0 of DataTracker, its **data mart** creation and management tool. DataTracker is used for building multidimensional application **data marts** on industry-standard relational database management systems. The Westmont, Ill.-based company focuses on supply chain solutions in manufacturing, wholesale/distribution and retail. Version 3.0 improves parallel loading, incremental storage updates and the calculation engine. New features include **dynamic table** partitioning, query limits and flexible master file **creation** and maintenance.

24/3,K/7 (Item 7 from file: 275)

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02250075 SUPPLIER NUMBER: 21153392 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Broadcasting Corporate Information. (MicroStrategy's DSS Broadcaster server-based software broadcasts information compiled from databases on corporate intranets) (Product Announcement)**

Luh, James C.

Internet World, v4, n29, p20(1)

Sept 14, 1998

DOCUMENT TYPE: Product Announcement ISSN: 1081-3071 LANGUAGE:

English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 807 LINE COUNT: 00068

...ABSTRACT: the failed concept of 'push' technology. DSS Broadcaster sends reports to several people in the organization when data values reach preset levels or whenever the **data warehouse** is updated. Recipient lists can be **generated dynamically** based on **database** content, which allows field sales staff to be notified automatically via pager when inventory on the products they sell falls below certain levels, for example ...

24/3,K/8 (Item 8 from file: 275)

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02246920 SUPPLIER NUMBER: 53278541

**Three data mart choices. (IBM's DB2 Universal Database , Sybase's IQ database , Informix's Dynamic Server ) ( Product Information) (Brief Article)**

Computerworld, 55(1)

Nov 30, 1998

DOCUMENT TYPE: Brief Article ISSN: 0010-4841 LANGUAGE: English

RECORD TYPE: Citation

**Three data mart choices. (IBM's DB2 Universal Database , Sybase's IQ database , Informix's Dynamic Server ) ( Product Information) (Brief Article)**

24/3,K/9 (Item 9 from file: 275)

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02216293 SUPPLIER NUMBER: 21114181 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**TPump allows updates while in active use. (NCR Canada Ltd's Teradata**

**Parallel Data Pump software allows data warehouse administrators to update information selectively in Teradata databases in real - time while operational queries are being run) ( Product Announcement)**

Computing Canada, v24, n33, p35(1)

Sept 8, 1998

DOCUMENT TYPE: Product Announcement ISSN: 0319-0161 LANGUAGE:

English RECORD TYPE: Fulltext

WORD COUNT: 192 LINE COUNT: 00018

TPump allows updates while in active use. (NCR Canada Ltd's Teradata Parallel Data Pump software allows data warehouse administrators to update information selectively in Teradata databases in real - time while operational queries are being run) ( Product Announcement)

24/3,K/10 (Item 10 from file: 275)  
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02128156 SUPPLIER NUMBER: 20086420 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Sybase powers up Designer. (PowerDesigner 6.1 database design tool) (Product Announcement) (Brief Article)**

Gonsalves, Antone

PC Week, v14, n52, p39(1)

Dec 15, 1997

DOCUMENT-TYPE: Product Announcement Brief Article ISSN: 0740-1604

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 415 LINE COUNT: 00038

... systems, including Cognos Corp.'s Impromptu and PowerPlay, Arbor Software Corp.'s Essbase, Oracle Corp.'s Express, and MicroStrategy Inc.'s DSS Agent.

PowerDesigner will automatically generate the cubes or system tables needed to support the OLAP tools, which are designed to analyze data within a data warehouse and assist in creating the environment for accessing that data.

The WarehouseArchitect also supports Sybase's Adaptive Server IQ 11.5 database, which contains warehousing...

24/3,K/11 (Item 11 from file: 275)  
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02116431 SUPPLIER NUMBER: 19952449 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**INFORMATICA FINALLY TURNS ITS TORNADO VISION INTO PRODUCT.**

Computergram International, n3283, pCGN11050023

Nov 5, 1997

ISSN: 0268-716X LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 342 LINE COUNT: 00030

TEXT:

**Data Mart** specialist Informatica Corp, of Menlo Park, has finally fleshed out the grand Enterprise **Data Mart** (EDM) strategy it unveiled in August (CI No 3,232) in the form of actual software, as opposed to the vision thing previously embodied in...

...Tornado' code name. The company claims the upgrade of two products and the introduction of two completely new ones builds on its aim to enable **Data Mart** customers to glide into the future in the shape of distributed **Data Warehouses**. The two upgraded offerings are PowerPlugs, a set of third party API (application programming interface) that allow third party products to plug in to the...

...Inc PowerDesigner (formerly S-Designor) and Logic Works Inc's ERWin, are ready for release); and version 4.0 of the company's flagship PowerMart **data Mart** builder and manager. The new products, on the other hand, are PowerCenter, an ambitious true enterprise level piece of software for networking and centrally managing Warehouses, and rev 1.1 of PowerCapture, a **product** for 'real - time' capture and refreshment of incremental **database** changes from an operational system into a **Data Warehouse**.

24/3,K/12 (Item 12 from file: 275)  
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02066632 SUPPLIER NUMBER: 19436429 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
ShowCase product simplifies DW administration. (Strategy  
Distributor) (Product Announcement) (Brief Article)  
Lardear, Jim  
MIDRANGE Systems, v10, n6, p45(2)  
April 25, 1997  
DOCUMENT TYPE: Product Announcement Brief Article ISSN: 1041-8237  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 351 LINE COUNT: 00031

... Distributor provides the ability to automatically build, load and recalculate multidimensional Essbase/400 databases.

"The most powerful aspect of Distributor is its complete support of dynamic SQL," Freund says. Customers can build de-normalized tables in the data warehouse, which is the best way to go after data in a warehousing situation.

"Production databases are tightly clean, normalized databases, which are good for OLTP...

24/3,K/13 (Item 13 from file: 275)  
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02063870 SUPPLIER NUMBER: 19409163 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Sybase fortifies S-Designor; renamed update blends Web features, data  
warehouse design. (PowerDesigner 6.0 database design tool suite) (PC Week  
Labs) (Software Review) (Evaluation)  
Dyck, Timothy  
PC Week, v14, n19, p61(1)  
May 12, 1997  
DOCUMENT TYPE: Evaluation ISSN: 0740-1604 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 714 LINE COUNT: 00066

...ABSTRACT: generation, although the function supports only Sybase gateways. The new WarehouseArchitect function is very helpful for transforming relational database designs into designs suitable for a data warehouse. PowerDesigner's ability to handle dimension and fact tables makes it a much better tool than its competitors. The WarehouseDesigner module supports an impressive 74 databases. The WarehouseArchitect can create extraction SQL scripts based on defined parameters, but the scripts must be run manually. The structure tree in the WarehouseArchitect automatically creates new dimension tables when users expand the dimension tree. The product was formerly known as S-Designor.

24/3,K/14 (Item 14 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02063862 SUPPLIER NUMBER: 19409155 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Sagent offers one-stop data shopping; Data Mart Solution 2.0 ably meets  
data management, analysis, extraction needs. (Sagent Technology's data  
mart software) (PC Week Labs) (Software Review) (Evaluation)  
Shumate, John  
PC Week, v14, n19, p51(2)  
May 12, 1997  
DOCUMENT TYPE: Evaluation ISSN: 0740-1604 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 909 LINE COUNT: 00077

... list of available tables from the source database. Selecting tables, columns and joins to create the new schemata was a painless point-and-click process.

Data Mart is designed to work with the popular star schema model used in most data marts (star schemata allow relational databases to do

multidimensional analyses). Two nifty features that are variations on this theme in Design Studio are the time dimension **generator**, which **automatically creates** time dimension **tables**, and the StarView Editor, which creates aggregate tables to enhance query performance.

We also used Design Studio to create Data Flow Plans to populate our

24/3,K/15 (Item 15 from file: 275)

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02035309 SUPPLIER NUMBER: 19086865 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Recipe for success: mixing your warehouse with the Web. (Integrated Device Technology) (includes related article on using a multi-dimensional model) (Company Operations)**

Baum, David

Data Based Advisor, v15, n2, p55(3)

Feb, 1997

ISSN: 0740-5200

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1682

LINE COUNT: 00143

... warehouse

The next step for developers was to extract data from production databases on a variety of host computers, then load it into an Informix **data warehouse** on a UNIX server. SILVERRUN RDM provided a bi-directional interface to Informix-SE and the Informix-OnLine **Dynamic Server**, **automatically creating** an Informix **database** from specifications in the data models.

"SILVERRUN manages the data transformation process, including mapping source data to the data warehouse," Thompson says. "It is an...

24/3,K/16 (Item 16 from file: 275)

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01983214 SUPPLIER NUMBER: 18467504 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Databoard. (InfoWare Inc's GUI-based online object-oriented reporting and presentation software) (Brief Article) (Product Announcement)**

Software Magazine, v16, n7, p181(2)

July, 1996

DOCUMENT TYPE: Brief Article Product Announcement

ISSN: 0897-8085

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 86

LINE COUNT: 00011

The product allows users to access data in any format, including **data warehouses** and relational **databases**, and **create** complex reports that can be **automatically** updated and distributed throughout the network when data changes.

Databoard has a retail price of \$600 and is integrated with the firm's interactive forecasting...

24/3,K/17 (Item 17 from file: 275)

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01955953 SUPPLIER NUMBER: 18456806 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Automating data extraction. (Carleton's Passport, Evolutionary Technologies International's Extract and Prism Solutions' Warehouse Manager data extraction tools) (Data Warehouse Architect) (Software Review) (Evaluation) (Column)**

Kimball, Ralph

DBMS, v9, n8, p16(2)

July, 1996

DOCUMENT TYPE: Evaluation Column

ISSN: 1041-5173

LANGUAGE:

English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1859 LINE COUNT: 00154

... high volumes of data from any database or file format to any other, regardless of the hardware/software."

\* Prism Warehouse Manager. Prism states that the **product** "automatically generates database creation and load control statements for the definition of **data warehouse** structures to the target DBMS. It also generates refresh, update, and append statements to support ongoing maintenance."

Detecting the Differences

One of the challenges an...

24/3,K/18 (Item 18 from file: 275)

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01921358 SUPPLIER NUMBER: 18164339 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Slowly changing dimensions. (data warehouses can track historical data) (Data Warehouse Architect) (Technology Tutorial) (Column)**

Kimball, Ralph

DBMS, v9, n4, p18(2)

April, 1996

DOCUMENT TYPE: Column ISSN: 1041-5173 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1749 LINE COUNT: 00137

ABSTRACT: A major advantage of **data warehouses** over online transaction processing (OLTP) systems is the fact that a warehouse can track historical as well as current data. OLTP describes the present, while the warehouse accepts the responsibility of describing the past accurately. Dimensional **data warehouse** databases consisting of large central fact tables and multipart keys are difficult to develop because dimensions change over time. Three main techniques for handling slowly...

...past history. Creating another dimension record is the most common technique and has such powerful advantages as the ability to partition history in the fact **table automatically**. **Creating** a current value field is the method of choice when it is necessary to track a change in the dimension value but the old value...

24/3,K/19 (Item 19 from file: 275)

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01692039 SUPPLIER NUMBER: 15579285 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Traveling on the trade show circuit. (overview of computer trade shows)**

**(SQL Explorer) (Column)**

Celko, Joe

DBMS, v7, n9, p19(4)

August, 1994

DOCUMENT TYPE: Column ISSN: 1041-5173 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2532 LINE COUNT: 00206

... behind a database warehouse is that you consolidate data from your production database and other sources onto a separate machine and database for decision support. **Production databases** are updated often and are **dynamic**; warehouse **databases** are static snapshots. **Production databases** are current; warehouse databases are historical Various production databases can serve individual groups within an organization. The **data warehouse** attempts to consolidate all the data from production systems for yet another specialized group of trained, high-level data analysts and managers.

Prism Solutions, Pyramid...

24/3,K/20 (Item 20 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01619584 SUPPLIER NUMBER: 14367336 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Prism Solutions supports HP Open Warehouse program. (Brief Article)**  
HP Professional, v7, n9, p66(1)  
Sept, 1993  
DOCUMENT TYPE: Brief Article ISSN: 0896-145X LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 120 LINE COUNT: 00010

Prism Warehouse Manager software automates the transformation of data from legacy systems and operational applications to a **data warehouse** or **informational database**. It **automatically** extracts and integrates data, **generates** code, **creates** and manages meta data, and builds a subject-oriented, historical base of meaningful information for decision support.

Warehouse Manager supports UNIX-based data warehouse development...

24/3,K/21 (Item 21 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01589879 SUPPLIER NUMBER: 13503542 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**What price to pay for data access: database gateways vary widely in cost, but compatibility is the overriding issue. (Buyers Guide)**  
Gold, Jack E.  
Software Magazine, v13, n4, p81(7)  
March, 1993  
DOCUMENT TYPE: Buyers Guide ISSN: 0897-8085 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 3564 LINE COUNT: 00279

... mainframe. The network does not add any significant time, when you consider it only adds about 5 to 10 seconds."

In an attempt to make **database** access **transparent** to applications and universal among diverse **database products**, IBM has implemented the DRDA. This is part of IBM's **Data Warehouse** framework, an attempt by IBM to make data accessible anywhere on a network, whether that data resides on an IBM or another vendor's machine...

24/3,K/22 (Item 1 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod. Annou. (R)  
(c) 2002 The Gale Group. All rts. reserv.

03296550 Supplier Number: 93512885 (USE FORMAT 7 FOR FULLTEXT)  
**Newest Release from COMPROSE, Inc. Represents Major Advance In Knowledge Capture Technology.**  
PR Newswire, pPHTU01429102002  
Oct 29, 2002  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 550

... content types to achieve unique knowledge applications.

According to Senior Design Architect John Lewis, "We describe Zavanta's underlying engine as a 'dynamic, intelligent, graphical **data warehouse** generator.' Using our friendly graphical user interface, even a 'non-technical' manager can 'design' a custom input interface based on their unique requirements and preferences. Then Zavanta **automatically generates** the underlying **database** structures for them. Among other benefits, our unique architecture allows Zavanta to be database independent. Users already can have their choice of MS ACCESS(R...

24/3,K/23 (Item 2 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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02926500 Supplier Number: 76422746 (USE FORMAT 7 FOR FULLTEXT)

**ecom and Synera Partner to Offer Customer Focused CRM Solutions.**

Business Wire, p2209

July 10, 2001

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 461

... allows ecom to offer an end-to-end CRM solution that focuses on the customer. This solution integrates customer data from various systems into a **data warehouse**, using our own Datagration software. Then, with Synera's new Exploration Database **product**, we can analyze the customer **data base**, and provide **real time** customer support that leverages the power of data and helps turn a cost center activity into a profit center."

Paladyne completed its acquisition of ecom...

24/3,K/24 (Item 3 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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02651552 Supplier Number: 65323894 (USE FORMAT 7 FOR FULLTEXT)

**Computer Associates Extends Leadership in Data Modeling With Debut of ERwin Examiner.**

PR Newswire, pNA

Sept 20, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 767

... ERwin Examiner analyzes data models to identify inconsistencies that adversely affect database integrity and efficiency. By providing a comprehensive set of diagnostics, ERwin Examiner validates **database** design, recommends improvements and **automatically generates** alter scripts to quickly execute design changes. Detailed diagnostic reports illustrate structural inconsistencies in a conveniently organized format. ERwin Examiner also fine-tunes a user's database design to ensure a solid foundation for eBusiness application and **data warehouse** implementations.

"ERwin Examiner is the only product we have found that will check the quality of our database structure," said Ken Hughes, president of Relational...

24/3,K/25 (Item 4 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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02192285 Supplier Number: 56012954 (USE FORMAT 7 FOR FULLTEXT)

**Brio Ships Next Generation of Most Widely Depolyed Enterprise Information Portal.**

PR Newswire, p0630

Oct 6, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 773

... of the portal's content and interface.

Today, organizations must provide employees with access to information from a myriad of sources such as production applications, **data warehouses** and **data marts**, Websites, and legacy applications. Brio Portal's open framework enables companies to leverage existing IT

investments and provides users a personalized view of relevant information

...

...Portal provides users with a secure browser-based access point for real-time information. Specifically, Brio.Portal now allows users to execute reports off of **production** systems or **databases**, and update content **automatically** and **transparently** from underlying applications. For example, Brio.Portal now acts as the intuitive front-ends to reports from various business applications, such as Oracle financials, SAP...

24/3,K/26 (Item 5 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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02113801 Supplier Number: 55087272 (USE FORMAT 7 FOR FULLTEXT)

**South Texas Project Installs HardBall Software's DataShark for Oracle.**

Business Wire, p1242

July 7, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 559

... information centered company."

DataShark for Oracle extracts, creates, and morphs data that developers use to build back ends for Internet applications, jump start and update **data warehouses** and **data marts**, and test application logic. The tool allows developers to **automatically create a database** structure from schemas or reverse-engineer from production databases. It enables power users to drill down through levels of information in Oracle databases, merge data...

...more than one million homes.

-----About HardBall Software

HardBall Software, Inc. (www.hardballsw.com) develops and markets data delivery software that frees information in corporate **databases** for **automatic creation** of Internet, **data mart** and other **data - based** applications. The privately held company was founded in 1996, and today its products are used in such Fortune 500 companies as Oracle, Oxford Health, Unisys...

24/3,K/27 (Item 6 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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01882407 Supplier Number: 54713770 (USE FORMAT 7 FOR FULLTEXT)

**Burlington Coat Factory Tailors Subset Oracle Databases With HardBall Software's DataShark.**

Business Wire, p1348

May 25, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 596

... this advanced shop."

DataShark for Oracle extracts, creates, and morphs data that developers use to build back ends for Internet applications, jump start and update **data warehouses** and **data marts**, and test application logic. The tool allows developers to **automatically create a database** structure from schemas or reverse-engineer from production databases.

DataShark incorporates HardBall's ViewShark software, which allows developers and power users to drill down through...

...site at www.coat.com.

About HardBall Software

HardBall Software, Inc. (www.hardballsw.com) develops and markets data delivery software that frees information in corporate **databases** for **automatic creation** of Internet, **data mart** and other **data - based** applications. The privately held company was founded in 1996, and today its

products are used in such Fortune 500 companies as Oracle, Oxford Health, Unisys...

24/3,K/28 (Item 7 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01835932 Supplier Number: 54231028 (USE FORMAT 7 FOR FULLTEXT)  
**HardBall Software's ViewShark Software Lets Knowledge Workers Extract  
Oracle Data to Spreadsheets and Web Sites.**  
Business Wire, p1227  
March 29, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 550

... for venture capitalists and entrepreneurs.  
About HardBall Software  
HardBall Software, Inc. ([www.hardballsw.com](http://www.hardballsw.com)) develops and markets  
data delivery software that frees information in corporate **databases** for  
**automatic creation** of Internet, **data mart** and other **data - based**  
applications. The privately held company was founded in 1996, and today its  
products are used in such Fortune 500 companies as Oracle, Oxford Health,  
Unisys...

24/3,K/29 (Item 8 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01793642 Supplier Number: 53614169 (USE FORMAT 7 FOR FULLTEXT)  
**HardBall Software Appoints Robert W. Sass Vice President of Sales.**  
Business Wire, p1390  
Jan 21, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 426

... 3.0 began shipping in January 1999.  
HardBall Software, Inc. (<http://www.hardballsw.com>) develops and  
markets data delivery software that frees information in corporate  
**databases** for **automatic creation** and testing of Internet, **data mart**  
and other data-based applications. HardBall Software is an active Oracle  
partner, participating in reseller, technical, business alliance and the On  
Oracle programs, in addition...

24/3,K/30 (Item 9 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01756994 Supplier Number: 53219954 (USE FORMAT 7 FOR FULLTEXT)  
**Silvon Software Introduces DataTracker 3.0; Enables Users to Quickly and  
Easily Build and Manage Large Application Data Marts.**  
Business Wire, p0296  
Nov 16, 1998  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 557

... mart solutions."  
Silvon DataTracker 3.0 offers increased performance, scalability and  
data granularity leading to faster, more robust construction and management  
of large, active application **data marts** and vertical **data warehouses**  
. Performance features such as fast parallel loading, advanced incremental  
storage updates and an improved calculation engine expand the application  
scalability of Silvon DataTracker. **Data warehouse** management features,

such as **dynamic table** partitioning, query limits and flexible master file **creation** and maintenance, simplify management and lower the cost of ownership. Silvon DataTracker 3.0 also includes several new supply chain application-specific features including the...

24/3,K/31 (Item 10 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01668559 Supplier Number: 50118633 (USE FORMAT 7 FOR FULLTEXT)

**Information Advantage to Acquire IQ Software**

PR Newswire, p0629MNM028

June 29, 1998

Language: English Record Type: Fulltext

Article Type: Article

Document Type: Newswire; Trade

Word Count: 1205

... reporting applications."

Information Advantage is a leading provider of robust, relational OLAP solutions for enterprise deployments. Its award winning, scalable DecisionSuite(R) product line supports **data mart** or **data warehouse** implementations for thousands of users and terabytes of data, and provides access and analysis capabilities via the Internet, intranet or extranet. IQ Software is a...

...software. Its products use an Internet-based, scalable architecture to deliver information from multiple sources to any user, including OLAP cubes for mobile users. IQ **products dynamically** access information from all major relational **databases**, enterprise applications including SAP, and from the dimensional databases Microsoft Plato and Arbor Essbase, on NT and UNIX platforms.

"The Information Advantage acquisition of IQ...

24/3,K/32 (Item 11 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01625806 Supplier Number: 48374995 (USE FORMAT 7 FOR FULLTEXT)

**Logic Works Announces Logic Links Partner Program.**

Business Wire, p3241117

March 24, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1337

... of the joint ETI and Logic Works customers would otherwise incur."

"As a part of the Logic Links program, Logic Works has expanded ERwin's **data warehouse** template offerings to **automatically create database** models supported by DecisionSuite. This enhancement enables companies to hit the ground running in the development and deployment of OLAP systems," said Larry Ford, president...

24/3,K/33 (Item 12 from file: 621)  
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)  
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01582666 Supplier Number: 48070076 (USE FORMAT 7 FOR FULLTEXT)

**Hyundai Standardizes on Informix for Global, Enterprise Data Warehouse, Data Marts and Internet Applications.**

Business Wire, p10230134

Oct 23, 1997

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 881



... which has achieved record- breaking TPC-D benchmarks in the industry, including on SMP, clusters, NUMA and MPP machines.

In addition, Hyundai chose INFORMIX-OnLine **Dynamic Server(TM)**, Informix's flagship **database product** , for the deployment of its **data marts** , which is being constructed simultaneously with its enterprise **data warehouse** on an IBM SP2 MPP system.

It also selected as its standard Relational OnLine Analytical Processing (ROLAP) engine and tools the INFORMIX-MetaCube(TM) product...

...DB2, Microsoft, Sybase and Oracle -- and with XPS, we have never lost a data warehousing customer benchmark to those competitors," Lee said.

#### About Informix's **Data Warehouse Products**

All of Informix's high-performance, scalable **database products** are based on its industry-leading **Dynamic Scalable Architecture(TM)** (DSA), which provides customers with a unique, secure application growth path.

INFORMIX-OnLine Extended Parallel Server (OnLine XPS) is a high-performance...

24/3,K/34 (Item 13 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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01571825 Supplier Number: 47989397 (USE FORMAT 7 FOR FULLTEXT)

**Geac Enterprise Server Delivers Data Warehouse Solution to Fortune 1000**

#### **Customer Base.**

Business Wire, p9191095

Sept 19, 1997

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1332

... plus implementations already in place.

Informatica PowerMart, the data warehousing industry's leading set of integrated client/server software for building and deploying enterprise-scalable **data marts** , provides the transformation tool that differentiates Enterprise Warehouse from other vendor solutions. In contrast to the code- **generation** approach required by traditional data warehousing **products** , PowerMart **automatically** transforms data extracted from mainframe operational transaction **databases** using a **real - time** extract/transform/load engine, eliminating the need for hand-written Cobol programs. PowerMart's proven ability to handle complex transformations on the fly and populate target **data marts** quickly and efficiently, makes it a critical component of Enterprise Warehouse. "Informatica has been recognized as the leading provider of software for building and deploying enterprise-scalable **data marts** , and we are pleased that Geac Enterprise Server has recognized the unique value of our technology," said Paul Albright, Vice President of Marketing at Informatica. "PowerMart is the first **data mart** product to be embedded under a specific industry data model, a move that foreshadows a growing trend for application companies to extend their current business...

24/3,K/35 (Item 14 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

(c) 2002 The Gale Group. All rts. reserv.

01525615 Supplier Number: 47329863 (USE FORMAT 7 FOR FULLTEXT)

**Sagent delivers Version 2 Data Mart Solution with interactive desktop and web-based analysis tools; Innovative OLAP Architecture first to combine scalability and high performance.**

Business Wire, p04281201

April 28, 1997

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1153

... because Sagent Analysis intelligently uses aggregates created in real time on the desktop or already stored on the server.

At the server level, the Sagent **Data Mart** Server is "aggregate aware," enabling it to quickly process information requests involving very large amounts of summarized data. And unlike any other multi-tiered OLAP product in the industry, the Sagent **Data Mart** Server can also **automatically create** and populate the aggregate **tables** in the underlying database. Typically, this process is performed manually by a data administrator, which is both time consuming and prone to errors.

WEB ENABLED...

24/3,K/36 (Item 15 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

(c) 2002 The Gale Group. All rts. reserv.

01511033 | Supplier Number: 47249449 (USE FORMAT 7 FOR FULLTEXT)  
**ShowCase Corporation simplifies data warehouse administration; new STRATEGY distributor automates data cleansing, summarization, and transfer to data warehouses and data marts.**

Business Wire, p3310028

March 31, 1997

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 691

... data, journaled and non-journaled tables, result columns combining multiple fields, and summaries of data may be specified for distribution.

STRATEGY Distributor supports the full **dynamic** SQL statement specification to **build** denormalized **tables** in the **data warehouse** and implement multi-table joins, and enables consolidation and summarization of data from two or more remote OLTP servers.

In addition to specifying the data...

24/3,K/37 (Item 16 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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01378960 Supplier Number: 46370573 (USE FORMAT 7 FOR FULLTEXT)  
**Business Objects to Provide Powerful, Safe Access Solution for SAP R/3 Data; Leading decision support tools vendor to provide starter kit for integrated query, reporting, and OLAP on SAP R/3 Information Systems.**

Business Wire, p5081027

May 8, 1996

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 863

... enables access to information stored in SAP's logistics information system (LIS). LIS is a component of SAP's Open Information Warehouse, a real-time **data warehouse** that provides online decision support information with updated data continuously and **automatically** supplied from SAP **production databases**. LIS is one of a number of information systems provided by SAP that stores data separately from the transactional parts of R/3.

"Business Objects...

24/3,K/38 (Item 17 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

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01353819 Supplier Number: 46196044 (USE FORMAT 7 FOR FULLTEXT)  
**Arbor Software Ships ESSBASE 4.0; New Version Delivers Operational OLAP for the Agile Enterprise.**

Business Wire, p3041098

March 4, 1996

Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1185

... or read/write.  
-- Dynamic Dimension Building: Essbase's dynamic dimension building capabilities have been enhanced so that complex, "many-to-many" multidimensional hierarchies can be **automatically created** directly from relational **databases** or other data sources. This feature speeds the development of robust OLAP applications using direct data feeds from OLTP or **data warehouse** systems.  
-- Enhanced System Management, Diagnostics and Recovery: Essbase and the Essbase Application Manager have been enhanced to provide a wide range of system management and...

24/3,K/39 (Item 18 from file: 621)  
DIALOG(R) File 621:Gale Group New Prod.Annou.(R)  
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01218237 Supplier Number: 43819200 (USE FORMAT 7 FOR FULLTEXT)  
**PRISM SOLUTIONS ANNOUNCES SUPPORT OF HEWLETT-PACKARD'S OPEN WAREHOUSE**  
News Release, p1  
May 4, 1993  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 625

... development in both client/server and mainframe environments. Prism Warehouse Manager software automates the transformation of data from legacy systems and operational applications to a **data warehouse** or informational **database**. It **automatically** extracts and integrates data, **generates** code, **creates** and manages meta data, and builds a subject-oriented, historical base of meaningful information for decision support. Warehouse Manager supports UNIX-based data warehouse development...

24/3,K/40 (Item 1 from file: 636)  
DIALOG(R) File 636:Gale Group Newsletter DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

04014688 Supplier Number: 53212063 (USE FORMAT 7 FOR FULLTEXT)  
**-ORACLE: Oracle launches Oracle8i, the world's only Internet database, at Oracle OpenWorld.**  
M2 Presswire, pNA  
Nov 12, 1998  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1473

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
...Oracle8i allows Java applications to run faster, more securely and use less memory, enabling Java to be used for large-scale applications, commerce sites and **data warehouses**. A built-in Java VM also dramatically reduces the skill set needed for database programming. Oracle WebDB makes it easy to "Web-enable" Oracle databases for authorised access from any browser anywhere in the world. The intuitive HTML interface and robust tool set allows non-programmers to quickly **build** and manage **dynamic database** -driven Web sites. Store Windows Files Securely Inside the Database: Oracle Internet File System (IFS) allows users to drag and drop any type of file...

24/3,K/41 (Item 2 from file: 636)  
DIALOG(R) File 636:Gale Group Newsletter DB(TM)

(c) 2002 The Gale Group. All rts. reserv.

03891293 Supplier Number: 50039922 (USE FORMAT 7 FOR FULLTEXT)

**-NCR: NCR Adds OLAP services to extend and expand**

M2 Presswire, pN/A

May 29, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1321

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...Services will be provided by a new database feature, TeraCube, and by Teradata Structured Query Language (SQL) extensions for OLAP and data mining. In a **data warehouse** environment, analysts, knowledge workers and managers use OLAP technology to get rapid responses to complex analytical questions. The Teradata OLAP Services are part of NCR...

...vendors," said Mark Hurd, vice president of marketing for NCR's Computer Systems Group. "We will continue to build on our leadership position in the **data warehouse** market by adding new levels of functionality in order to provide a decision support environment that is far superior to any other competitive offering in...

...come in the areas of end-user scalability, access to large data sets, and rapid retrieval of business information," said Dan Harrington, vice president of **data warehouse** marketing for NCR's Computer Systems Group. NCR partners who are currently working with NCR to provide support for Teradata OLAP Services include Brio Technology...

...needs than traditional, static OLAP databases. TeraCube provides analytical capabilities without the restrictions typically imposed by OLAP servers, and uses The Ant Colony's patented **database** navigation technology called **Dynamic Table Selection (DTS)** to **create** multi-dimensional data on an ad hoc basis. The TeraCube hybrid OLAP system takes advantage of the benefits inherent with multi-dimensional data cubes. And...

...visualize answers, analyze business data, and share results across the enterprise. "The addition of OLAP functionality to Teradata solidifies NCR's status as a leading **data warehouse** provider," said Ron Spencer, Vice President of Research and Development for Hummingbird's Business Intelligence Group. "This is extremely good news for our many joint...s Workshop and its products and services can be found on the World Wide Web at: <http://www.geppetto.com> About NCR's Teradata the **Data Warehouse** Engine Helping businesses gain new insights, NCR's Teradata is the only database with the power and performance to answer any question, on any data...

24/3,K/42 (Item 3 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2002 The Gale Group. All rts. reserv.

03119092 Supplier Number: 46379001 (USE FORMAT 7 FOR FULLTEXT)

**BUSINESS OBJECTS: Business Objects to provide powerful, safe access solution for SAP R/3 data**

M2 Presswire, pN/A

May 13, 1996

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 907

... to information stored in SAP's logistics information system (LIS). LIS is a component of SAP's Open Information Warehouse, and is a real-time **data warehouse** that provides online decision support information, with updated continuously and **automatically** supplied from SAP **production databases**. LIS is one of a number of information systems provided by SAP that stores data separately from the transactional parts of R/3.

"Business Objects...

24/3,K/43 (Item 4 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2002 The Gale Group. All rts. reserv.

02190380 Supplier Number: 44136746 (USE FORMAT 7 FOR FULLTEXT)  
**MATERIAL HANDLING UPDATE: RF DATA COMMUNICATIONS SYSTEM HELPS EATON MEET  
KEY CUSTOMER DEMANDS**  
Manufacturing Automation, v3, n>1, pN/A  
Oct, 1993  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1315

... sending data to and from the terminals to the base system. The terminals feature a straightforward design philosophy, and serve as a conduit for the **data**. **Warehouse** workers enter data into the portable terminal, and the information is sent to the host computer via radio waves. The host computer **generates** terminal prompts and updates the **database** file in **real time** as the user inputs responses on his/her terminal. Program updates or additions can be readily made, since the software resides in the host computer...

24/3,K/44 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

05954414 Supplier Number: 53221023 (USE FORMAT 7 FOR FULLTEXT)  
**Data Harvester. (Salford Systems' CART data-mining software) (Brief  
Article) (Product Announcement)**  
InformationWeek, p250(1)  
Nov 16, 1998  
Language: English Record Type: Fulltext  
~~Article Type: Brief Article; Product Announcement~~  
Document Type: Magazine/Journal; Tabloid; General Trade  
Word Count: 84

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
Salford Systems' CART data-mining software harvests valuable knowledge from existing **databases**, **data marts**, and **data warehouses**. It can **automatically generate** easy-to-interpret decision-tree models that predict the characteristics and profitability of customers and prospects. These models can be used for segmenting databases, profiling...

24/3,K/45 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

05782357 Supplier Number: 50270978 (USE FORMAT 7 FOR FULLTEXT)  
**WebDB tool to tap Oracle's future**  
Gardner, Dana  
InfoWorld, v20, n35, p22  
August 31, 1998  
Language: English Record Type: Fulltext  
Article Type: Article  
Document Type: Magazine/Journal; Trade  
Word Count: 473

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
Oracle next month will announce a tool that leverages its PL/SQL cartridge to **create** and monitor Web applications that **dynamically** draw on **database** and **data - warehouse** entries.

24/3,K/46 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

05048652 Supplier Number: 47411302 (USE FORMAT 7 FOR FULLTEXT)

**Data mart tool**

Computerworld, p47

May 26, 1997

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Tabloid; Trade

Word Count: 85

(USE FORMAT 7 FOR FULLTEXT)

**TEXT:**

Informatica Corp. in Menlo Park, Calif., plans next week to introduce a new version of its PowerMart **data mart** tools and a companion **product** that enables **real - time** warehousing of **production database** updates.

PowerMart 3.5 will support parallel loading of **data marts** and be able to pull information out of source databases via the Open Database Connectivity specification, Informatica officials said. Pricing will start at \$45,000...

24/3,K/47 (Item 4 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2002 The Gale Group. All rts. reserv.

03991314 Supplier Number: 45795369 (USE FORMAT 7 FOR FULLTEXT)

**Vendors move to automate data warehousing**

InfoWorld, p006

Sept 18, 1995

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 324

Prism Solutions Inc., based in Sunnyvale, Calif., will introduce its offering, Prism Change Manager, in November. It is designed to keep **data warehouses** built around databases from IBM, Informix Software Inc., Tandem Computers Inc., Oracle Corp., Sybase Inc., Teradata, and Red Brick Systems up to date by **automatically** capturing changes made to **production databases**. The tool transforms the data into whatever format is used by the given **data warehouse** database and then replicates the reformatted data to the **data warehouse**.

Information Builders Inc. (IBI) will this week unveil Enterprise Copy Manager, a data extraction, transformation, and copy tool. It captures changes in production databases, reformats...

24/3,K/48 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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13844298 SUPPLIER NUMBER: 78479469 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**IT mining solution. (African Rainbow Minerals, CS Holdings) (Brief Article)**

World Mining Equipment, 25, 7, 4

Sept, 2001

DOCUMENT TYPE: Brief Article

ISSN: 0746-729X

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 116 LINE COUNT: 00012

**TEXT:**

African Rainbow Minerals (ARM) is using CS Holdings to develop a **data warehouse** and provide a more effective flow of information across its operations, which includes some 13 separate shafts. The **data warehouse** is currently under test and should unify the previously non-compatible systems into a single and comprehensive information store that ARM will use

to improve decision-making as well as to accelerate the complex management reporting process. Features include a trawler developed by CS Systems that helps the **data warehouse** to extract and gather data from the existing disparate **databases**. Reports can be **produced**, updated and delivered, with **dynamic** reports interrogated via a browser

24/3,K/49 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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12458104 SUPPLIER NUMBER: 63914643 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Electronic Commerce. (Brief Article)**

Diaferio, Terry; Roppolo, Michael

Buildings, 94, 7, 24

July, 2000

DOCUMENT TYPE: Brief Article

ISSN: 0007-3725

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 795 LINE COUNT: 00071

... time business information, use bulletin boards as a convenient clearinghouse for community news, participate in business forums, and join discussion groups. It's easy to **create automatic databases** and **data warehouses** for more informed decision-making.

\* E-commerce. Convenient e-commerce is the last component to complete, holistic, Internet-enabled buildings. The building owner receives service...

24/3,K/50 (Item 3 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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09443492 SUPPLIER NUMBER: 19288494 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Web goal: see it now. (CBS News generates HTML pages in real time to provide election information on the Web) (Case Study) (Company Operations)**

Baum, David

InformationWeek, n624, p66(2)

March 31, 1997

ISSN: 8750-6874

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1223 LINE COUNT: 00099

ABSTRACT: CBS News wanted to create a Web site that would provide worldwide access to local and national election and exit-polling results on Web pages **generated dynamically**. The company encountered difficulty linking its legacy **database** to **real-time** election data just a week before the election. The New Media group worked with Silicon Graphics for the site's hardware, which included single- and...

...Web development company Bluestone worked with CBS News to provide Web access to the database. Bluestone Dir of Marketing Jeff Whitney says Web access to **data warehouses** and back-office systems is a major trend on the Web and in corporate intranets.

24/3,K/51 (Item 4 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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09175072 SUPPLIER NUMBER: 18936204 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**DataBlades let NASA put all kinds of data in a row, easily. (snap-in software application modules) (includes glossary and related article on NASA's Earth System Visualizer Web page) (Spotlight: Data Warehousing) (Technology Information)**

Zurier, Steve

Government Computer News, v15, n29, p45(2)

Nov-18, 1996

ISSN: 0738-4300

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

... coming after the first of the year.

Visit the site at <http://www1.ecologic.net/avesda2/html/>.

Aggregation: Summary data assembled in response to a **data warehouse** query. Black box. Software that performs without letting the user see the process that leads to a conclusion. Cost-based query optimizer: Software that optimizes...

...on a database server with the raw data. Data extraction: Pulling data from one source, transforming it and presenting it in a format intelligible to **data warehouse** users. Data farm: A collection of storage units containing legacy operational data, or commercial services such as a **data mart** franchise, or third-party **data marts** containing archives or backups. **Data mart**: A subset of a **data warehouse**, usually containing data for a single department or function. Also called a data store. Data mining: Data search that uses statistical algorithms to discover patterns...flags redundancies, outdated information, spelling inconsistencies and other discrepancies. Data transformation: Summarizing, reconciling and relating data in transactional databases in preparation for inclusion in a **data warehouse**. **Data warehouse**: One or more databases that consolidate information from many departments within an organization. Provides tools and procedures that let users make ad hoc queries to...

...OLTP: On-line transaction processing. ROLAP: Relational online analytical processing. Software tool that extracts data from a relational database using complex SQL statements against relational **tables** to **create** multidimensional views **on the fly**. SQL: Structured Query Language. Powerful **database** language used to **create**, maintain and view data in a relational database. Visualization: Combination of computerized graphics and imaging to convert numeric data into graphical forms such as 3

24/3,K/52 (Item 5 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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08147973 SUPPLIER NUMBER: 17448231 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Vendors move to automate data warehousing. (Prism Solutions Inc's Prism Change Manager; Information Builders Inc's Enterprise Copy Manager) (Brief Article) (Product Announcement)**  
Ricciuti, Mike  
InfoWorld, v17, n38, p6(1)  
Sep 18, 1995  
DOCUMENT TYPE: Brief Article Product Announcement ISSN: 0199-6649  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 332 LINE COUNT: 00031

Prism Solutions Inc., based in Sunnyvale, Calif., will introduce its offering, Prism Change Manager, in November. It is designed to keep **data warehouses** built around databases from IBM, Informix Software Inc., Tandem Computers Inc., Oracle Corp., Sybase Inc., Teradata, and Red Brick Systems up to date by **automatically** capturing changes made to **production databases**. The tool transforms the data into whatever format is used by the given **data warehouse** database and then replicates the reformatted data to the **data warehouse**.

Information Builders Inc. (IBI) will this week unveil Enterprise Copy Manager, a data extraction, transformation, and copy tool. It captures changes in production databases, reformat...

24/3,K/53 (Item 6 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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08098675 SUPPLIER NUMBER: 17277491 (USE FORMAT 7 OR 9 FOR FULL TEXT)



Informix to close gap with rivals. (Informix Software Inc's Online Dynamic Server 7.2 slated for year-end shipment)

Ricciuti, Mike

InfoWorld, v17, n35, p1(2)

August 28, 1995

ISSN: 0199-6649

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 563

LINE COUNT: 00052

... Extensible Framework. The framework will allow users to add support for additional data types through an API for linking third-party text, workflow, and imaging products to the OnLine Dynamic Server database, said Marianne Elkholy, director of data warehouse marketing.

Version 7.2 will also enable bidirectional replication between Informix databases, Watson said. In addition to providing this Informix-only replication in Version 7...

24/3,K/54 (Item 7 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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07996578

SUPPLIER NUMBER: 17283780

(USE FORMAT 7 OR 9 FOR FULL TEXT)

ETI enters strategic partnership with Informix; mutual customers reap major benefit from ETI's support for Informix's OnLine XPS and OnLine Dynamic Server product lines.

Business Wire, p7180041

July 18, 1995

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 677

LINE COUNT: 00065

TEXT:

SAN JOSE, Calif.--(BUSINESS WIRE)--July 18, 1995--Evolutionary Technologies International (ETI) Tuesday pledged publicly its commitment to support Informix Software's Dynamic Scaleable Architecture (DSA) database product line, including the company's INFORMIX-OnLine Dynamic Server and INFORMIX-OnLine Extended Parallel Server (OnLine XPS) product geared specifically for large-scale data warehouses.

24/3,K/55 (Item 8 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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07996042

SUPPLIER NUMBER: 17281704

(USE FORMAT 7 OR 9 FOR FULL TEXT)

ARBOR SOFTWARE AND INFORMIX ANNOUNCE PARTNERSHIP TO DELIVER INTEGRATED

WAREHOUSE SOLUTIONS; Integrating Relational Database Data Warehouses With Multidimensional Database Data Marts.

Business Wire, p7181016

July 18, 1995

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 831

LINE COUNT: 00088

... feature that will provide users with a direct link between the summarized, analytical data held in Essbase and the detail data stored in an Informix data warehouse database by automatically generating live SQL queries from Essbase to Informix.

Arbor has joined InSync, Informix's partner program for independent software vendors committed to providing horizontal, Informix-compatible...

24/3,K/56 (Item 9 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2002 The Gale Group. All rts. reserv.

07923867

SUPPLIER NUMBER: 17039698

(USE FORMAT 7 OR 9 FOR FULL TEXT)

HP And Arbor Software Deliver Integrated Data-Warehousing Solution; New HP Intelligent Warehouse Module Integrates Warehouse and OLAP Metadata to Simplify Connection Between Arbor's Essbase and Data Warehouses.

Business Wire, p6140103

June 14, 1995

LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 1367 LINE COUNT: 00127

... quarter 1994).

Typically, large low-level summaries and detailed data are not kept within the OLAP multidimensional database, but instead are maintained within a large **data - warehouse**. Drilling down to this **data - warehouse** data outside of the multidimensional database is referred to as "drill-through." Essbase features instantaneous response time for drill downs internally in the Essbase multidimensional database, but drilling through to the relational **data warehouse** may require a number of detail rows to be summarized to satisfy the user's query. With Intelligent Warehouse, summary **tables** are **automatically created** and maintained to provide fast drill-through performance. Reducing this performance penalty is important as customers need to explore ever-larger **data warehouses** in ever-greater detail.

The integration of HP's Intelligent Warehouse with Arbor Essbase applies readily to a variety of horizontal and vertical business environments...

24/3,K/57 (Item 10 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2002 The Gale Group. All rts. reserv.

07829464 SUPPLIER NUMBER: 16894708 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**ORACLE7 IS FIRST TO MARKET WITH GENERALLY AVAILABLE PARALLEL DATABASE FOR IBM SP2**

PR Newswire, p502NY016

May 2, 1995

LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 1519 LINE COUNT: 00139

... from overnight to hours or minutes enabling organizations to make better business decisions faster.

Oracle offers products that help customers create, administer and use their **data warehouse**. Oracle has a large suite of connect **products** that provide **transparent** access to many popular mainframe **databases**. Through the use of these products, customers can move data from legacy mainframe applications into the **data warehouse** on the SP2.

Oracle Corp., a \$2 billion company with headquarters in Redwood Shores, Calif., is the world's leading supplier of information management software...

24/3,K/58 (Item 11 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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07208978 SUPPLIER NUMBER: 15061727 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Data warehouse options abound. (second of two parts) (Enterprise Computing/Management) (Tutorial)**

Wallace, Peggy

InfoWorld, v16, n11, p49(2)

March 14, 1994

DOCUMENT TYPE: Tutorial ISSN: 0199-6649 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2206 LINE COUNT: 00177

**ABSTRACT:** A **data warehouse** is a central repository for critical corporate data taken from operational databases and requires several components, including warehouse management software, a powerful database management system...

...first step in warehouse building and requires tremendous patience because much corporate data is stored in varying or even incompatible

formats. The growing popularity of **data warehouses** has led to extraction tools that automate much of the conversion process. Carleton Passport, Extract Tool Suite and Prism Warehouse Manager all map source data to the target **database** and **automatically generate** data-transformation code. After data has been 'cleaned up,' it is stored in either a general-purpose relational DBMS or a specialized product such as ...

24/3,K/59 (Item 12 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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06691080 SUPPLIER NUMBER: 14333822 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Shell Oil develops a LAN-based data warehouse: networked application gives managers, engineers a snapshot of mainframe data. (Shell Western Exploration and Production Inc.) (includes related article on Shell Western Exploration & Production Inc.'s MIS department) (Case Study)

LaPlante, Alice  
InfoWorld, v15, n35, p58(1)  
August 30, 1993

ISSN: 0199-6649 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1335 LINE COUNT: 00106

ABSTRACT: Shell Oil Corp's Shell Western Exploration and Production Inc division develops a local area network (LAN)-based **data warehouse** -type application for its business managers and engineers. The application, called Management Information Graphics (MIG), grew out of users' frustration with the old, manual way...

...reporting tools they had to use to generate their reports. With those tools, legacy data was printed in tabular form and rekeyed into spreadsheets to **produce** reports. Now, data is extracted **automatically** from remote **databases** monthly and downloaded to Shell's LAN-based database.

File 15:AF7/Inform(R) 1971-2002/Dec 02  
 (c) 2002 ProQuest Info&Learning  
 File 635:Business Dateline(R) 1985-2002/Dec 02  
 (c) 2002 ProQuest Info&Learning  
 File 9:Business & Industry(R) Jul/1994-2002/Nov 28  
 (c) 2002 Resp. DB Svcs.  
 File 810:Business Wire 1986-1999/Feb 28  
 (c) 1999 Business Wire  
 File 647:CMP Computer Fulltext 1988-2002/Nov W2  
 (c) 2002 CMP Media, LLC  
 File 674:Computer News Fulltext 1989-2002/Nov W4  
 (c) 2002 IDG Communications  
 File 696:DIALOG Telecom. Newsletters 1995-2002/Dec 02  
 (c) 2002 The Dialog Corp.  
 File 369:New Scientist 1994-2002/Oct W3  
 (c) 2002 Reed Business Information Ltd.  
 File 813:PR Newswire 1987-1999/Apr 30  
 (c) 1999 PR Newswire Association Inc  
 File 613:PR Newswire 1999-2002/Dec 03  
 (c) 2002 PR Newswire Association Inc  
 File 634:San Jose Mercury Jun 1985-2002/Dec 01  
 (c) 2002 San Jose Mercury News  
 File 370:Science 1996-1999/Jul W3  
 (c) 1999 AAAS  
 File 610:Business Wire 1999-2002/Dec 03  
 (c) 2002 Business Wire.

Set	Items	Description
S1	4641	(AUTOMATIC? OR DYNAMIC? OR TRANSPARENT? OR ON(1W)FLY OR BE-HIND(2W)SCENE? ? OR REAL()TIME) (3N) (CREAT? OR GENERAT? OR BUI-LD? OR CONSTRUCT? OR PRODUC? OR SET????()UP OR ESTABLISH?) (3N-)(DATABASE? ? OR DATA()BASE? ? OR TABLE? ?)
S2	76981	(RELATIONSHIP? ? OR RELATEDNESS OR RELAT???? OR ASSOCIAT? - OR LINK??? OR OPERATION? ? OR PROCEDURE? ? OR FUNCTION? ? OR - RULE? ? OR INTEGRITY OR CORRECT?) (5N) (ROW? ? OR COLUMN? ? OR - DATABASE? ? OR DATA()BASE? ? OR TABLE? ?)
S3	183317	DEFINITION? ? OR SCHEMA? ?
S4	25638	DATAMART? ? OR DATAWAREHOUSE? ? OR DATA() (MART? ? OR WAREH- OUSE? ?)
S5	480	S1(S)S2
S6	34	S5(S)S3
S7	44	S1(S)S4
S8	43	RD (unique items)
S9	42	S8 NOT S6
S10	184	S1(S)S3
S11	13	S1(S)DEFINITION? ?(S)SCHEMA? ?
S12	24	S11 OR S1(50N)DEFINITION? ?(50N)SCHEMA? ?
S13	18	S12 NOT (S6 OR S9)
S14	22	S1(S)ERWIN OR S1(50N)ERWIN
S15	20	RD (unique items)
S16	17	S15 NOT (S6 OR S9 OR S13)
S17	1182140	HUMAN? ? OR PROGRAMMER? ? OR DEVELOPER? ?
S18	570	S1(S)S17
S19	51	S10(S)S17
S20	51	RD (unique items)
S21	24	S20 NOT (S6 OR S9 OR S13 OR S16)
S22	27	S10(S) (INTEGRITY OR RULE? ? OR CORRECT????)
S23	10	S22 NOT (S6 OR S9 OR S13 OR S16 OR S21)

6/9/4 (Item 4 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01118758-97-68152

**IQ offers objects for end-users**

Tyo, Jay

Informationweek n556 PP: 101 Dec 4, 1995 ISSN: 8750-6874 JRNL CODE:

IWK

DOC TYPE: Journal article LANGUAGE: English LENGTH: 1 Pages

ABSTRACT: IQ Software's IQ Objects version 5.1 query and report-writing tool is reviewed. IQ Objects is a managed-query environment - an administrator creates a virtual layer, called a knowledge base, between the target database and the end users. Each knowledge base accesses only one data source. IQ provides a knowledge base editor that reads the **schema definition** of a target **database** and **automatically** creates objects for the fields in the **database** and **relationships** for each of the **table** joins.

*different  
-database is  
already  
built*

**COMPANY NAMES:**

IQ Software Corp

**GEOGRAPHIC NAMES:** US

**DESCRIPTORS:** Decision support systems; Object oriented programming;  
Computer upgrading; Software reviews

**CLASSIFICATION CODES:** 5240 (CN=Software & systems); 9120 (CN=Product specific); 9190 (CN=United States)

6/3,K/1 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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02421123 125020501

**Regression testing of database applications**

Haraty, Ramzi A; Mansour, Nashat; Daou, Bassel A  
Journal of Database Management v13n2 PP: 31-42 Apr-Jun 2002  
ISSN: 1063-8016 JRNL CODE: DAN  
WORD COUNT: 7457

...TEXT: of the level of granularity is to consider each table in the database a variable and handle all types of table usages as either a **definition** of the table or a retrieval of values. However, most of the time only parts of a table are handled in a given SQL statement. Another...

... This situation is similar to the problem of defining the control flow relations created by linked lists, where each node in the linked list is **dynamically created**, modified, and deleted. In the case of **database tables** each row is **dynamically created**, deleted, modified, or retrieved. This implies that we can not statically identify the possible data flow **relations** that could exist between **rows**. This is because the row usage is determined by evaluating the restricting conditions of the SQL statement performing the data manipulation.  
A more moderate solution...

6/3,K/2 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01793614 04-44605

**Easier Web applications from the bottom up**

Hibbard, Justin  
Informationweek n724 PP: 61 Mar 8, 1999  
ISSN: 8750-6874 JRNL CODE: IWK  
WORD COUNT: 339

...TEXT: development, Vignette wants to cut the time and money it takes to launch Web sites on its server.

Vignette Development Center 4.2 lets users **create** templates for Web pages and **link** them to **databases** without writing code. The tool **automatically generates database tables and schema in databases** such as Microsoft SQL Server, Oracle, and Sybase. Users can manipulate database elements as visual objects and incorporate them into Web-page templates.

Modeling the...

6/3,K/3 (Item 3 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01164887 98-14282

**Modeling for the future**

Carreon, Julia C; Wang, Yun P; Watt, Peggy  
InfoWorld v18n6 PP: 60-77 Feb 5, 1996  
ISSN: 0199-6649 JRNL CODE: IFW  
WORD COUNT: 10135

...TEXT: IS shops use a data modeler to ensure their database ends up as they pictured it. A data modeling tool lets you graphically design a **database** model based on your business rules. From there it **automatically generates database schema scripts, creating an actual database structure.**

We tested four Windows-based **products** ; three were chosen by our readers (and are market leaders): Powersoft Corp.'s S-Designor Enterprise 4.2.1, Erwin ERX 2.5 from Logic...for doing so.

Because Erwin combines the logical and physical models, when you modify logical-level data you're also modifying physical-level data. Erwin **automatically** adjusts **table columns** after the **relationships** among **tables** are changed.

Erwin is the only **product** with a synchronization feature that eliminated the need to regenerate our modified database **schema** . Although the user interface of the database synchronization functionality is not straightforward, we found it very powerful, and it kept us from having to regenerate **schema** scripts. Erwin doesn't support data model version control but is compatible with Intersolv Inc.'s PVCS.

\* S-Designor Enterprise 4.2.1

SATISFACTORY

PART...

6/3,K/4 (Item 4 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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01118758 97-68152

**IQ offers objects for end-users**

Tyo, Jay

Informationweek n556 PP: 101 Dec 4, 1995

ISSN: 8750-6874 JRNL CODE: IWK

...ABSTRACT: between the target database and the end users. Each knowledge base accesses only one data source. IQ provides a knowledge base editor that reads the **schema definition** of a target **database** and **automatically** creates objects for the fields in the **database** and **relationships** for each of the **table** joins.

6/3,K/5 (Item 5 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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01051454 97-00848

**Client-side confusion**

Dowgiallo, Ed

InfoWorld v17n24 PP: 52-68 Jun 12, 1995

ISSN: 0199-6649 JRNL CODE: IFW

WORD COUNT: 8770

...TEXT: is the first step required by Enterprise Developer. In our case, this was simple, as we were able to use Enterprise Developer's re-engineering **function** to read our Watcom **database** and **automatically** construct the ER diagram from the existing **table definitions** and referential **integrity** constraints.

*ER construct (def.)*

We then modified the ER diagram to include our editing rules, business rules, and some display information (default column headings for reports, for example...

6/3,K/6 (Item 6 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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00838900 94-88292

**Automatic database generation by novice end-users using English sentences**  
Steinberg, Geoffrey; Faley, Robert; Chinn, Susan

...TEXT: method, pilot software implementation was developed and tested using twenty-two graduate-level business students with no previous experience in systems analysis, database programming, or **schema** design. Each subject's task involved designing a medical office database **schema** and producing finished programs for entering and accessing data maintained in the prototype database THE Analyst **generated**. The task involved five **tables** and four one to many **relationships**. The **automatically generated** prototype provided referential integrity and also included a completely ad hoc query system which permitted the end-user to retrieve any data as desired. Tables...

6/3,K/7 (Item 7 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00823631 94-73023

**Asymetrix tool helps simplify PC relational database design**

Damore, Kelley

InfoWorld v16n7 PP: 6 Feb 14, 1994

ISSN: 0199-6649 JRNL CODE: IFW

WORD COUNT: 346

ABSTRACT: Asymetrix Corp. will soon ship InfoModeler, a tool based on object role modeling methodology that **automatically** generates the **schema** for **database** components and writes business **rules** using English-language facts and examples, thus automating the database design process.

...TEXT: the design process, eliminating the need to code data relationships and map them to different tables or keys.

InfoModeler, based on object role modeling methodology, **automatically** generates the **schema** for **database** components and writes business **rules** using English-language facts and examples.

For instance, a developer would begin building an information model by typing in "Product is supplied by Supplier" and...

6/3,K/8 (Item 8 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00752140 94-01532

**Access 1.1 and Paradox for Windows 1.1**

Darling, Charlie

InfoWorld v15n33 PP: 68 Aug 16, 1993

ISSN: 0199-6649 JRNL CODE: IFW

WORD COUNT: 9791

...TEXT: number of important properties for each field: display format, default caption, default value, a validation rule and error message, and indexing options.

To complete the **definition** of your Access **database**, you can use the **Relationship** command to define one-to-one and one-to-many **relationships** among your **tables**. Making Access aware of these **relationships** allows it to (optionally) enforce referential **integrity** among **tables** and to **automatically generate** the appropriate JOIN clauses when you build a multitable query.

Access uses a multirecord grid or "datasheet" view as its default view of a table...



6/3,K/9 (Item 9 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00653415 93-02636

**Guide to Strategic Purchase Decisions: Distributed DBMS - The Elusive Illusion**

Nitzsche, Kyle

Network World v9n48 PP: 43-44, 60, 63 Nov 30, 1992

ISSN: 0887-7661 JRNL CODE: NWW

WORD COUNT: 3858

...TEXT: the master record when one of the dependent records is called up to make sure the data in both is accurate.

Declarative structures allow referential **integrity** to be written into the **database definition** and **automatically** performed. This enables programmers to **build** a dependency **table** once and avoid having to code triggers into applications. Every time a dependent record is called up, the declarative structure would automatically consult the master...

6/3,K/10 (Item 1 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

0683341 96-40568

**Sybase introduces middleware to bridge object-based applications with relational databases**

Guilbalt, Jodi

PR Newswire (New York, NY, US) p1

PUBL DATE: 960318

WORD COUNT: 799

DATELINE: Emeryville, CA, US, Pacific

TEXT:

...business processes and consolidate data, the need to protect and ensure its integrity becomes a key concern. ObjectCONNECT brings to C++ programmers the strong referential **integrity** inherent in the relational **database**. For example, when a customer object is deleted, that deletion should be propagated through to all the accounts related to the customer. If the deletion is not propagated automatically, the data becomes unreliable. ObjectCONNECT enforces constraints at the object level to maintain **database integrity**, and **related** objects are evaluated on an ongoing basis in order to secure the mappings between objects and databases as current and reliable.  
ObjectCONNECT provides the scalability...

...ObjectCONNECT transforms simple relational data in SQL Server, and other leading databases, into complex business objects.

ObjectCONNECT also adapts easily to changes in business processes, **automatically generating** new objects based on **database** schemas. This allows the application to adapt to changing business conditions without recoding.

In addition to improved time-to-market and competitive gains, ObjectCONNECT can...

...database systems. Most corporations store their data in existing relational formats; ObjectCONNECT uses their existing schema definitions for mapping purposes. It creates object models from **schema** allowing new applications to be built that use existing data in new and productive ways.

Pricing and Availability

ObjectCONNECT for C++ will be generally available...

6/3,K/11 (Item 2 from file: 635)  
DIALOG(R) File 635:Business Dateline(R)  
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0489819 94-43785  
**ONTOS unveils enhanced version of its object-oriented database**  
Currier, Lynn  
Business Wire (San Francisco, CA, US) s1 p1  
PUBL DATE: 940425  
WORD COUNT: 816  
DATELINE: Burlington, MA, US

TEXT:

...of their applications, business or enterprise.

Additional flexibility is attained through ONTOS' dynamic data dictionary, which provides run-time access to information describing the database **schema** : the structure and behavior of objects and their relationship to other objects. Using **dynamic** data dictionary classes, developers can create new **database** classes, query a **schema** , invoke **procedures** or gain access to object data values, in a generic manner, on the fly.

ONTOS/DB R3.0 Pricing and Availability  
ONTOS/DB R3.0...

6/3,K/12 (Item 3 from file: 635)  
DIALOG(R) File 635:Business Dateline(R)  
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0381999 93-33046  
**Microsoft announces SQL server**  
Auld, Bev  
Business Wire (San Francisco, CA, US) s1 p1  
PUBL DATE: 930329  
WORD COUNT: 1,473  
DATELINE: Redmond, WA, US

TEXT:

...event logging and auditing. New tape backup facilities provide fully unattended backup at scheduled time intervals.

--SQL Object Manager. This new graphical administration tool manages **database tables** , views, stored **procedures** , triggers, etc. A new Windows-based loader transfers data to and from common PC data formats, and an interactive script **generator** **automatically** **builds** SQL data **definition** statements from existing **databases** .

Easy Migration of Existing Applications  
-----

Special attention has been paid to help ensure seamless interoperability and compatibility with applications written for Microsoft SQL Server 4...

6/3,K/13 (Item 1 from file: 9)  
DIALOG(R) File 9:Business & Industry(R)  
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02392418 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Easier Web Applications From The Bottom Up -- Vignette Tool And Upgrade**

**Empower Non-Technical Users**  
(Vignette Corp to introduce Vignette Development Center 4.2, a development tool upgrade for creating templates for Web pages and linking them to databases without writing code)

Information-Week, p 61

March 08, 1999

DOCUMENT TYPE: Journal ISSN: 8750-6874 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 388

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...development, Vignette wants to cut the time and money it takes to launch Web sites on its server.

Vignette Development Center 4.2 lets users **create** templates for Web pages and **link** them to **databases** without writing code. The tool **automatically generates database tables and schema in databases** such as Microsoft SQL Server, Oracle, and Sybase. Users can manipulate database elements as visual objects and incorporate them into Web-page templates.

Modeling the...

6/3,K/14 (Item 2 from file: 9)

DIALOG(R)File 9:Business & Industry(R)

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02246114 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Forte Introduces Application Server**

(Forte Software to introduce WebEnterprise Professional Edition, a server that lets customers create cross-platform applications)

Information Week, p 40

September 21, 1998

DOCUMENT TYPE: Journal ISSN: 8750-6874 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 119

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...Forte Software Inc. this week will introduce WebEnterprise Professional Edition, a server that lets customers create cross-platform applications.

The server features a wizard-based **database application generator** that **automatically creates** HTML components. Web applications can be built by importing database **schemas** from relational **databases** from Computer **Associates**, Informix, Microsoft, Oracle, and Sybase. The server's application designer lets developers build transactional database applications.

"Many application servers work with groups of 30 to...

6/3,K/15 (Item 3 from file: 9)

DIALOG(R)File 9:Business & Industry(R)

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01139489 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**ERROS WINS IBM MARKETING AGREEMENT FOR ITS ERROS RAPID APPLICATION DEVELOPMENT SYSTEM FOR THE AS/400**

(Erros (UK) introduced a rapid application development tool and object-oriented database software)

Computergram International, n 2615, p N/A

March 03, 1995

DOCUMENT TYPE: Newsletter ISSN: 0268-716X (United Kingdom)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...will attract many users. He said Erros does away with what he believes is the artificial divide between rules and information, with data and application **definitions** linked. Erros, which stands for Expert Real-time Relational Open Systems, creates neither code nor programs in any conventional sense, although some programming might be...

...database at the heart of Erros is defined using semantic bi-directional relationships. Each item is stored as an independent entity that can then be **linked** to other entities in the **database** in a forwards and back-ards fashion so that if one were developing an application to track pat-ents sent by family doctors to consultants...

...actual Rapid Application Development tool and enables users to type their business model, in the example the relationship between the doctors and patient, into the **database**. The **relationship**, a kind of diagram, is entered in any everyday language. As long as all developers uses the same language, attributing the same meaning to words, Erros can integrate any extensions or amendments. Dixon says this type of linkage enables users to navigate from one diagram to another. Also, these links, **definitions** and parts of di-agrams can be re-used indefinitely. For example, once 'name and number' as an identifier is entered into the database it...

...a developer need not have a great depth of understanding about how the business is run: applications for one part of the business can be **created** and extended, even when live, with the **database automatically** integrating all amendments. If an error is made, Dixon says, it is simple to break the links and erase the error. He added that all...

...audit straightforward. Maintenance of the applications developed is said to be minimal because programs are not actually created - all there is is a series of **relationships linked** in a **database** and the user makes call to the database to run the application. A graphical interface is optional. It is available on the AS/400 only...

6/3,K/16 (Item 1 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0779418... BW1182

SYNON: Synon Announces Support for Microsoft SQL Server, Enterprise Edition 6.5; Synon Continues Commitment to Windows NT Application Development with SQL Server, Enterprise Edition

December 01, 1997

Byline: Business Editors/Computer Writers

...NT/BackOffice fully integrate with Microsoft BackOffice and automatically comply with the "Designed for BackOffice" logo standards.

"With Obsydian our customers will be able to **automatically** generate SQL Server, Enterprise Edition **database schemas** and **database access functions**," said Ramon Chen, director of products, Synon. "Obsydian will provide the tools customers need to rapidly deploy scaleable and fault-tolerant enterprise business applications using..."

6/3,K/17 (Item 2 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0684994 BW1170

**STERLING SOFTWARE: Sterling Software announces KEY:Workgroup version 2.5**

March 26, 1997

Byline: Business Editors & Technology Writers

...continuing  
to maintain the relationships between logical and physical models.  
For example, when populating a Database Schema from an Entity  
Relationship Diagram, foreign keys can **automatically** be created in  
the **Database Schema** based on identifiers and **relationships** in the  
Entity Relationship Diagram.

The Database Schema now supports forward and reverse engineering  
of relational view objects. Views can be quickly modeled from  
existing...

6/3,K/18 (Item 3 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0400836 BW842

**ONTOS: ONTOS unveils enhanced version of its object-oriented database**

April 25, 1994

Byline: Business Editors

...dictionary, which provides run-time access to information describing  
the database schema: the structure and behavior of objects and their  
relationship to other objects. Using **dynamic** data dictionary classes,  
developers can create new **database** classes, query a **schema**, invoke  
**procedures** or gain access to object data values, in a generic manner,  
on the fly.  
ONTOS/DB R3.0 Pricing and Availability  
ONTOS/DB R3.0...

6/3,K/19 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

01186606 CMP ACCESSION NUMBER: IWK19990308S0038  
**Easier Web Applications From The Bottom Up - Vignette Tool And Upgrade  
Empower Non-Technical Users**  
Justin Hibbard  
INFORMATIONWEEK, 1999, n 724, PG61  
PUBLICATION DATE: 990308  
JOURNAL CODE: IWK LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Intranets/Internet  
WORD COUNT: 392

Vignette Development Center 4.2 lets users **create** templates for Web  
pages and **link** them to **databases** without writing code. The tool  
**automatically generates database tables and schema in databases**  
such as Microsoft SQL Server, Oracle, and Sybase. Users can manipulate  
database-elements as visual objects and incorporate them into Web-page  
templates.

Modeling the...

6/3,K/20 (Item 2 from file: 647)

DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

01173105 CMP ACCESSION NUMBER: IWK19980921S0036

**Forte Introduces Application Server**

Hakhi Alakhun El

INFORMATIONWEEK, 1998, n 701, PG40

PUBLICATION DATE: 980921

JOURNAL CODE: IWK LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: News Scan

WORD COUNT: 124

The server features a wizard-based **database** application generator that **automatically** creates HTML components. Web applications can be built by importing database **schemas** from relational **databases** from Computer **Associates**, Informix, Microsoft, Oracle, and Sybase. The server's application designer lets developers build transactional database applications.

"Many application servers work with groups of 30 to...

6/3,K/21 (Item 3 from file: 647)

DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

01119949 CMP ACCESSION NUMBER: WIN19970301S0180

**Going Once, Going Twice ... - A charity auction taught me a thing or two about database programming.** (Programming Windows)

Martin Heller

WINDOWS MAGAZINE, 1997, n 803, PG247

PUBLICATION DATE: 970301

JOURNAL CODE: WIN LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: How To

WORD COUNT: 1373

... schema, using an entity relationship (E-R) model. For the auction schema, I came up with five tables (see sidebar "Go with the Flow").

This **schema** is straightforward except for the many-to-many (n:m) relationship between items and packages, and the necessary inventory constraint: A package can have many...

...represent n:m relationships directly; in addition, they require unique record identifiers to establish even simple one-to-many (1:n) relationships. To implement this **schema** in Clarion, I added an ID field to all five tables, and in each case defined the field to be a unique key that would be **generated** automatically.

In relational **databases**, n:m **relationships** are usually implemented with an intermediate or intersection table containing foreign keys for the owner tables. In the auction database I added a sixth Contains...

6/3,K/22 (Item 4 from file: 647)

DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

01073919 CMP ACCESSION NUMBER: IWK19951204S0055

**Object technology - IQ Offers Objects For End-Users - New query and report writing tool is powerful, but mastering its full potential may take time** (In Short)

Jay Tyo

INFORMATIONWEEK, 1995, n 556, PG101

PUBLICATION DATE: 951204

JOURNAL CODE: IWK LANGUAGE: English

RECORD TYPE: Fulltext  
SECTION HEADING: Databases & Tools  
WORD COUNT: 609

... between the target database and the end users. Each knowledge base accesses only one data source. IQ provides a knowledge base editor that reads the **schema definition** of a target **database** and **automatically** creates objects for the fields in the **database** and **relationships** for each of the **table** joins. These are then fine-tuned by the administrator.

In my testing in InformationWeek's OpenLabs, IQ Objects read the schema and created the objects...

6/3,K/23 (Item 5 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

01022640 CMP ACCESSION NUMBER: WIN19940501S2377

**Access 2.0 - Wizards Add Ease to Database Access**

James E. Powell  
WINDOWS MAGAZINE, 1994, n 505 , 104  
PUBLICATION DATE: 940501  
JOURNAL CODE: WIN LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: First Impressions

TEXT:

... that helps you select from among 50 business-oriented samples as well as those for personal applications. When you choose from the samples, Access will **automatically create** an input form. You can customize the **tables** used by the Wizard to tailor Access to the specific needs of your company. The CrossTab Query Wizard helps you create complex queries to summarize...

...n values in a field of a table, such as the top 10 states based on population. And when you're using two or more **related tables**, you can find records on the "many" side of a one-to-many relationship even when there are no related records on the "one" side...

...cascading updates and deletes. In a cascading update, changing the key value in a table changes the key field values of corresponding records in the **related table**. Data can also be updated simultaneously in two tables that are joined. The Form Wizard introduced in Access 1.0 has also been made over...

...includes new AutoForm and AutoReport features that help you build forms and reports faster. The new features are, however, disappointing. For example, AutoForm ignores any **relationships** established for a **table**, so it creates a form only for the original table. The Form Wizard is smart enough to look for relationships, but AutoForm lacks that facility...

...application is never fun, but Access 2.0 takes some of the sting out of the process. You can select an object and choose **Print Definition** to print information such as the fields and properties in the selected database table. For more complete documentation, the Database Documentor produces an Access report showing such details as each field and its property settings, indexes and security information. Another add-in lets you update **links** to attached **tables** you have moved or renamed. It also lets you import an entire Access database into your current database, or build an application menu. There's...

6/3,K/24 (Item 6 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

01022354 CMP ACCESSION NUMBER: NWC19940601S2088

**Database Design Done Right**  
Richard Finkelstein

NETWORK COMPUTING, 1994, n 507 , 75  
PUBLICATION DATE: 940601  
JOURNAL CODE: NWC      LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Client/Server Databases

TEXT:

... the entities and their relationships to each other. Nowhere in E-R methodology is there guidance on how to choose an entity correctly./P The **definition** of an entity is ambiguous, and this fuzziness leads to unresolvable problems in E-R modeling. Entities are supposed to be big things or important things in an organization. They are defined weakly as "things that can be distinctly identified." However, almost anything fits this **definition**. Consider the thing called Address: Is it an entity or an attribute? It depends. Address is not a priori an entity or attribute. It only...

...It is a systematic methodology that starts with facts and ends up with tables. Database designers work with end users to name objects that is, **database** fields and to define **relationships** between these objects using English sentences. These are called facts. Facts identify two objects that are related to each other and any constraints that may...

...to build tables. It starts with an object, looks at the relationships that exist between that object and all the other objects, and builds up **tables** based on these **relationships**. This is sometimes referred to as bottom-up design. Throughout the process the database designer is not required to make any guesses or deal with...can be automated fully using new object-role modeling tools, such as InfoModeler from Asymetrix Corp. InfoModeler literally can take an object-role design and **generate** the right database design **automatically**. **Database** designs are more **correct** and the process is accessible to developers and users alike. InfoModeler analyzes all the facts and generates a logical database design in third-normal form the best and most **correct** way to design a **database**. Third-normal form minimizes data redundancy and ensures that each data element is associated correctly with a primary key. InfoModeler also generates database **definition** language statements, like SQL's CREATE TABLE and CREATE INDEX, eliminating the tedium of writing these commands manually. InfoModeler does this automatically for several desktop...

6/3,K/25      (Item 7 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

00569644      CMP ACCESSION NUMBER: IWK19901105S1397

**SPEAKING THE RIGHT LANGUAGE**

Daniel Todd  
INFORMATIONWEEK, 1990, n 294, 22  
PUBLICATION DATE: 901105  
JOURNAL CODE: IWK      LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: SOFTWARE  
WORD COUNT: 399

... intelligence service of New Science Associates, the Southport, Conn.-based market research firm, says ICon will help save time because it has the ability to **automatically** incorporate a **database**'s **schema** in **creating** semantic links. In addition, ICon provides automatic error checking and correction, and generates an English description of the database.

Release 4.0 also brings an application programming...

6/3,K/26      (Item 1 from file: 674)  
DIALOG(R)File 674:Computer News Fulltext  
(c) 2002 IDG Communications. All rts. reserv.



047672

**Database Details Made Easier**

**Computerworld Client/Server Journal, October 1995**

Journal: Computerworld

Publication Date: October 01, 1995

Word Count: 1302 Line Count: 127

Text:

... nature, Vivid Clarity represents as ``entities'' all the items in an enterprise's information universe as well as the relationships between those items and the **rules** governing their interaction in the **database** application.

In the **database** design mode, Vivid Clarity **automatically** produces the data **definition** language to create or modify databases, including Sybase, Inc., Oracle Corp. and other Open Database Connectivity-supported databases.

WHERE: The minimum system configuration for Clarity...

6/3,K/27 (Item 2 from file: 674)

DIALOG(R)File 674:Computer News Fulltext

(c) 2002 IDG Communications. All rts. reserv.

027402

**The elusive illusion**

The ability to make data at multiple sites appear as one logical database is still a bit out of reach.

Byline: Kyle Nitzsche; Nitzsche is an associate features editor for Network World.

Journal: Network World Page Number: 43

Publication Date: November 30, 1992

Word Count: 4323 Line Count: 313

Text:

... the master record when one of the dependent records is called up to make sure the data in both is accurate.

Declarative structures allow referential **integrity** to be written into the **database** **definition** and **automatically** performed. This enables programmers to **build** a dependency **table** once and avoid having to code triggers into applications. Every time a dependent record is called up, the declarative structure would automatically consult the master...

6/3,K/28 (Item 1 from file: 813)

DIALOG(R)File 813:PR Newswire

(c) 1999 PR Newswire Association Inc. All rts. reserv.

1355161

SFMM03

**Embarcadero Rapid SQL 5 adds Database Project Management, Version Control, Parallel Queries and Expanded DBMS Platform Support**

DATE: October 9, 1998

08:03 EDT

WORD COUNT: 892

... a graphical tree interface. Build management facilities allow the user to determine the order in which source code files will be accessed when performing automated **database** **schema** builds. A powerful **associated** feature is a reverse-engineering wizard that will **automatically** **create** code repositories (projects) from live **databases**.

Integration with Microsoft Source Safe, INTERSOLV PVCS and MKS Source Integrity Version Control Systems

Seamless integration with major source code configuration products is a hallmark...

6/3,K/29 (Item 2 from file: 813)

DIALOG(R)File 813:PR Newswire

(c) 1999 PR Newswire Association Inc. All rts. reserv.

1224543

SFM004

**POET(R) Software Extends Database Connectivity with Rational Rose**

DATE: February 9, 1998

07:59 EST

WORD COUNT: 806

... today announced the release of POET Rose Link version 2.0, an add-on to Rational Software Corporation's Rose(R) visual modeling tool. Upon **building** a visual model in Rose, POET Rose **Link** **automatically** **builds** the application's **database**, using POET's award-winning object **database**. POET Rose **Link** now supports reverse engineering of the POET database **schema** and **schema** evolution, providing full round-trip engineering of object-oriented database applications. This results in faster and more efficient application development.

"Rational Rose is a powerful...

...Rational Rose to Support POET ODBMS

The POET Rose Link is an integration between Rational Rose visual modeling tools and POET. This interface lets developers **automatically** **create** the POET **database** **schema** from objects modeled in Rational Rose. The forward engineering capability of POET Rose Link takes your Rose model and creates the POET object database necessary...

... objects as "persistent" in your class specifications and defining the location of your database. The reverse engineering capability of POET Rose Link takes the POET **schema** **definition** and generates the visual Rose model enabling the user to visually change the **schema** **definition** of existing POET **databases**. POET Rose **Link** directly integrates into the Rational Rose menu system and uses property pages provided by Rational Rose.

Forward and reverse engineering capabilities in combination with schema

...

6/3,K/30. (Item 3 from file: 813)

DIALOG(R) File 813:PR Newswire

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1038455

NYTH012

**easyBASE Ltd. Announces easyBASE: the First Database Document Manager For Dummies**

DATE: January 2, 1997

09:00 EST

WORD COUNT: 909

...links.

From Flat Files To Relational Database In A Few Clicks ... New AutoLink(TM) Technology. Makes It Simple

The power of easyBASE lies in the **database** engine that **creates** the relational **links** **automatically**. Users define or import flat files (in dBASE format) for each aspect of their business they want to manage: customers, invoices, items, etc. Next, the...

... an org chart using the flat files as building blocks and placing icons in a graphical interface. The chart is based on their real world **relationship**, not a theoretical relational **database** model. While the user freely moves icons in the desired chart, easyBASE's new patent-pending AutoLink technology dynamically infers the org chart hierarchy into a **linked** **database** structure automatically. The user is free from dealing with underlying programming issues like relational links, primary keys, foreign keys, join types, relational **schema**, intersection **tables**, normalized **relations**, etc. No need for scrupulous planning or hard-wiring of database structures at the outset. The charts can be modified

spontaneously, or even combined other...

6/3,K/31 (Item 1 from file: 613)

DIALOG(R)File 613:PR Newswire

(c) 2002 PR Newswire Association Inc. All rts. reserv.

00786578 20020625SFTU043 (USE FORMAT 7 FOR FULLTEXT)

**NexPrise Rapidly Automates Critical Business Processes**

PR Newswire

Tuesday, June 25, 2002 08:02 EDT

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 1,494

...application layer. It allows people to build and customize business process applications or Web services quickly and easily. It also offers drag-and-drop simplicity, **automatically** generating the required Java code, **database** calls and other **functions**, so NexPrise developers and customers can focus on the business logic.

Key functions supported and managed by the NexPrise nProcess Platform include:

- Object **definition** and mapping, based on a new, flexible data model,

enables business model **definition**, as well as data modeling and mapping

to and from other systems.

- New roles-based user interfaces handle personalization and presentation

across applications or Web...

6/3,K/32 (Item 2 from file: 613)

DIALOG(R)File 613:PR Newswire

(c) 2002 PR Newswire Association Inc. All rts. reserv.

00226464 19991206SFM064 (USE FORMAT 7 FOR FULLTEXT)

**Visio 2000 Enterprise Edition and Real-Time Statistics Ships**

PR Newswire

Monday, December 6, 1999 09:00 EST

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 1,332

...with end

users to capture the business rules that describe an application domain

- without worrying about implementation details. Using Object Role Modeling, they can design **databases** at a conceptual level and then **automatically generate database schemas** from the models created.

Natural Language Reports help end users verify that the design meets actual requirements.

- Advanced UML Support. Enterprise Edition supports all eight Unified Modeling Language (UML...

6/3,K/33 (Item 3 from file: 613)

DIALOG(R)File 613:PR Newswire

(c) 2002 PR Newswire Association Inc. All rts. reserv.

00185650 19990929SFW092 (USE FORMAT 7 FOR FULLTEXT)

**New Developer Tools in Visio 2000 Professional and Enterprise Editions Debut At COMPASS '99**

PR Newswire

Wednesday, September 29, 1999 14:20 EDT  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 1,287

...based Database Design. Enterprise Edition provides integrated support for Object Role Modeling (ORM), which allows users to enter business rules in natural language and then automatically generate entity relationship database models and DBMS-specific database schema. This conceptual database design approach facilitates collaboration among a wide variety of contributors.

Pricing and Availability  
COMPASS '99 attendees may stop by the Visio booth...

6/3,K/34 (Item 1 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2002 Business Wire. All rts. reserv.

00015800 1999071B1248 (USE FORMAT 7 FOR FULLTEXT)  
**Hardball Software Selected to Participate in Red Herring's Third Annual Venture Market South Conference**  
Business Wire  
Friday, March 12, 1999 14:15 EST  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 511

...Downtown, in Atlanta, Ga. About HardBall Software, Inc.

HardBall Software, Inc. ([www.hardballsw.com](http://www.hardballsw.com)) develops and markets data delivery software that frees information in corporate **databases** for **automatic creation** of Internet, data mart and other **data - based** applications. DataShark for Oracle extracts, **creates**, and morphs data according to user specifications after the **database** structure has been **created automatically** from **schemas** or reverse-engineered from **production databases**. ViewShark allows developers and power users to drill down through levels of information in Oracle and SQL Server databases, for purposes of examining the data, subsetting data by **business rules**, merging data from multiple **tables** and saving the resultant data in dozens of different flat file formats such as Excel and HTML. The privately held company was founded in 1996...

9/3,K/1 (Item 1 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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01811992 04-62983

**DataTracker 3.0 pays attention to details**

Webster, John

Midrange Systems v12n6 PP: 31 Apr 26, 1999

ISSN: 1041-8237 JRNL CODE: MRS

WORD COUNT: 459

...ABSTRACT: includes enhanced storage and performance capabilities, as well as streamlined enterprisewide deployment features. The new release also offers fast parallel loading, an improved calculation engine, **dynamic table** partitioning, query limits, flexible master file **creation** and sparse periodic structure codes. Central to Data Tracker 3.0 is its ability to load greater amounts of information, in greater detail, into **data marts**, and also provide more frequent tabular updates of that data.

...TEXT: file creation and sparse periodic structure codes.

Central to DataTracker 3.0 is its ability to load greater amounts of information, in greater detail, into **data marts**, and also provide more frequent tabular updates of that data. This becomes crucial when users want to keep track of highly granular product life-cycle information. Even as large amounts of data get loaded into a **data mart**, DataTracker 3.0 can **automatically** and incrementally rebuild calculation **tables**. Many competing **products** must recalculate data tables less frequently, often overnight, a lengthy process that can interrupt the data-loading process, says John Hughes, VP of sales and...

9/3,K/2 (Item 2 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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01691858 03-42848

**WebDB tool to tap Oracle's future**

Gardner, Dana

InfoWorld v20n35 PP: 22 Aug 31, 1998

ISSN: 0199-6649 JRNL CODE: IFW

WORD COUNT: 453

ABSTRACT: Oracle Corp. will soon announce WebDB, a tool that leverages its PL/SQL cartridge to **create** and monitor Web applications that **dynamically** draw on **database** and **data warehouse** entries. The tool currently allows 4 basic functions for accessing databases: browsing, building, administering, and monitoring. WebDB obviates the need to refresh an application, thus...

TEXT: ORACLE NEXT MONTH will announce a tool that leverages its PL/SQL cartridge to **create** and monitor Web applications that **dynamically** draw on **database** and **data - warehouse** entries.

Called WebDB, the former WebView project has been in internal use at Oracle for 18 months. The company will now commercialize Web DB as...

9/3,K/3 (Item 3 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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01102783 97-52177

**Vendors move to automate data warehousing**

Ricciuti, Mike

InfoWorld v17n38 PP: 6 Sep 18, 1995

ISSN: 0199-6649 JRNL CODE: IFW

WORD COUNT: 325

...TEXT: databases to data warehouses.

Prism Solutions Inc., based in Sunnyvale, Calif., will introduce its offering, Prism Change Manager, in November. It is designed to keep **data warehouses** built around databases from IBM, Informix Software Inc., Tandem Computers Inc., Oracle Corp., Sybase Inc., Teradata, and Red Brick Systems up to date by **automatically** capturing changes made to **production databases**. The tool transforms the data into whatever format is used by the given **data warehouse** database and then replicates the reformatted data to the **data warehouse**.

Information Builders Inc. (IBI) will this week unveil Enterprise Copy Manager, a data extraction, transformation, and copy tool. It captures changes in production databases, reformats...

9/3,K/4 (Item 4 from file: 15)  
DIALOG(R) File 15:ABI/Inform(R)  
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01083419 97-32813  
**Informix to close gap with rivals**  
Ricciuti, Mike  
InfoWorld v17n35 PP: 1, 16 Aug 28, 1995  
ISSN: 0199-6649 JRNL CODE: IFW  
WORD COUNT: 564

...TEXT: Extensible Framework. The framework will allow users to add support for additional data types through an API for linking third-party text, workflow, and imaging **products** to the OnLine **Dynamic Server database**, said Marianne Elkholy, director of **data warehouse** marketing.

Version 7.2 will also enable bidirectional replication between Informix databases, Watson said. In addition to providing this Informix-only replication in Version 7...

9/3,K/5 (Item 5 from file: 15)  
DIALOG(R) File 15:ABI/Inform(R)  
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00799560 94-48952  
**DBMS tools pass updates to warehouse**  
Lisker, Peter  
Network World v10n50 PP: 31 Dec 13, 1993  
ISSN: 0887-7661 JRNL CODE: NWW  
WORD COUNT: 417

...TEXT: them off to a new version of its Warehouse Manager, Release 3.5.

Prism's new Changed Data Capture modules for IBM IMS and DB2 **databases** **automatically** capture changes made to an operational **database** and **generate** the COBOL code necessary to update the appropriate fields in **data warehouses** or operational data stores (ODS).

Both modules work based on the principle of reading the source database management system log tape that is generated whenever...

9/3,K/6 (Item 6 from file: 15)  
DIALOG(R) File 15:ABI/Inform(R)  
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00688929 93-38150  
**What price to pay for data access?**  
Gold, Jack E  
Software Magazine v13n4 PP: 81-92 Mar 1993  
ISSN: 0897-8085 JRNL CODE: SMG

WORD COUNT: 3341

...ABSTRACT: Corp., offer gateways. Gupta's Gupta SQLNetwork for DB2 allows its own users to access DB2 data on the mainframe. In an attempt to make **database** access **transparent** to applications and universal among diverse **database** **products**, IBM has implemented the DRDA, part of IBM's **Data Warehouse** framework. ...

...TEXT: mainframe. The network does not add any significant time, when you consider it only adds about 5 to 10 seconds."

In an attempt to make **database** access **transparent** to applications and universal among diverse **database** **products**, IBM has implemented the DRDA. This is part of IBM's **Data Warehouse** framework, an attempt by IBM to make data accessible anywhere on a network, whether that data resides on an IBM or another vendor's machine...

9/3,K/7 (Item 1 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

1031833 99-95932

**HardBall Software Appoints Robert W. Sass Vice President of Sales**

Anonymous

Business Wire (San Francisco, CA, US) p1

PUBL DATE: 990121

WORD COUNT: 417

DATELINE: Belington, WV, US, South Atlantic

TEXT:

...3.0 began shipping in January 1999.

HardBall Software, Inc. (<http://www.hardballsw.com>) develops and markets data delivery software that frees information in corporate **databases** for **automatic** **creation** and testing of Internet, **data** **mart** and other data-based applications. HardBall Software is an active Oracle partner, participating in reseller, technical, business alliance and the On Oracle programs, in addition...

9/3,K/8 (Item 2 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

0678931 96-36123

**Arbor Software ships ESSBASE 4.0**

McMillan, Joanna

Business Wire (San Francisco, CA, US) p1

PUBL DATE: 960304

WORD COUNT: 1,140

DATELINE: Sunnyvale, CA, US, Pacific

TEXT:

...or read/write.

-- Dynamic Dimension Building: Essbase's dynamic dimension building capabilities have been enhanced so that complex, "many-to-many" multidimensional hierarchies can be **automatically** **created** directly from relational **databases** or other data sources. This feature speeds the development of robust OLAP applications using direct data feeds from OLTP or **data** **warehouse** systems.

-- Enhanced System Management, Diagnostics and Recovery: Essbase and the Essbase Application Manager have been enhanced to provide a wide range of system management and...

9/3,K/9 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2002 Resp. DB Svcs. All rts. reserv.

02583719 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Hardball Secures Funding**

(Hardball Software Inc (Chantilly, VA) raises \$4.5 mil in second round of venture financing on 9/1/99; will use funds to boost sales to government agencies)

Washington Technology, v 14, n 12, p 8

September 13, 1999

DOCUMENT TYPE: Journal ISSN: 1058-9163 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 122

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**TEXT:**

...headquartered in Fort Worth, Texas. Lazard invested \$2 million in first round funding in March 1998.

Hardball Software develops and markets data delivery software that automatically creates tailored databases for Internet, data mart and other database applications. ...

9/3,K/10 (Item 2 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2002 Resp. DB Svcs. All rts. reserv.

02297956 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Data Harvester**

(Salford Systems introduced its new CART data-mining software which harvests valuable knowledge from existing databases, data marts and data warehouses)

Information Week, p 250

November 16, 1998

DOCUMENT TYPE: Journal; News Brief ISSN: 8750-6874 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 76

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**TEXT:**

Salford Systems' CART data-mining software harvests valuable knowledge from existing databases, data marts, and data warehouses. It can automatically generate easy-to-interpret decision-tree models that predict the characteristics and profitability of customers and prospects. These models can be used for segmenting databases, profiling...

9/3,K/11 (Item 3 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
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02039137

**Sql Power Tools**

(Five products from Sql Power Tools are supporting Sybase Inc's recent release of Sybase Adaptive Service IQ)

Interactive Week, v 5, n 1, p 19

January 12, 1998

DOCUMENT TYPE: Journal ISSN: 1078-7259 (United States)

LANGUAGE: English RECORD TYPE: Abstract

**ABSTRACT:**

Five products from Sql Power Tools are supporting Sybase Inc's recent release of Sybase Adaptive Service IQ for data warehouses on the Web.



The Power Tool products provide the following: real - time performance modeling, database index prediction resulting from a user query, optimal decision support system configuration, stress testing and regression testing for Sybase Adaptive Server IQ. ...

9/3,K/12 (Item 4 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2002 Resp. DB Svcs. All rts. reserv.

01830876 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Web Searches Get Smarter**

(Biggest problem in searching multiple structured databases via Web is that many organizations use different names to describe same thing)

CommunicationsWeek, p 1+

May 19, 1997

DOCUMENT TYPE: Journal ISSN: 0748-8121 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 627

**ABSTRACT:**

...InfoMaster, the middleware is designed to run on any Web server and lets an organization establish contextual meanings for multiple data structures. In effect, InfoMaster creates virtual databases that perform on-the-fly vocabulary translations in order to join comparable product listings into a single table. In some ways the data translation problems faced by InfoMaster are much the same as those faced by network and IS managers trying to aggregate data from multiple corporate sources into a single data warehouse.

9/3,K/13 (Item 1 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0969557 BW1235

**WV HARDBALL SOFTWARE 2: HardBall Software's DataShark for Oracle Adds Y2K Features Plus Compatibility With Testing Tools and Packaged Applications**

January 27, 1999

Byline: Business/Technology Editors

...user, is \$24,995 for five concurrent users.

HardBall Software, Inc. (www.hardballsw.com) develops and markets data delivery software that frees information in corporate databases for automatic creation and testing of Internet, data mart and other data-based applications. The privately held company has been shipping DataShark product since 1997. Today HardBall's products are used in dozens of...

9/3,K/14 (Item 2 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0969555 BW1234

**WV HARDBALL SOFTWARE: Hardball Software Forms Technical and Marketing Alliance With Mercury Interactive for Y2K Testing Products**

January 27, 1999

Byline: Business/Technology Editors

...with a network of distributors throughout the world.

HardBall Software, Inc. (www.hardballsw.com) develops and markets data delivery software that frees information in corporate **databases** for **automatic creation** and testing of Internet, **data mart** and other data-based applications. The privately held company was founded in 1996 and today its products are used in dozens of Fortune 1000 companies...

9/3,K/15 (Item 3 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0939668 BW0296

**SILVON SOFTWARE: Silvon Software Introduces DataTracker 3.0; Enables Users to Quickly and Easily Build and Manage Large Application Data Marts**

November 16, 1998

Byline: Business Editors/Technology Writers

...data  
warehouses. Performance features such as fast parallel loading, advanced incremental storage updates and an improved calculation engine expand the application scalability of Silvon DataTracker. **Data warehouse** management features, such as **dynamic table** partitioning, query limits and flexible master file **creation** and maintenance, simplify management and lower the cost of ownership. Silvon DataTracker 3.0 also includes several new supply chain application-specific features including the...

9/3,K/16 (Item 4 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0936614 BW1202

**HARDBALL SOFTWARE: Oracle Adds Hardball Software's Data Delivery Product to Open Tools Initiative; 30-Day Version of DataShark for Oracle Will Be Shipped to All Oracle Tools Buyers**

November 10, 1998

Byline: Business/Technology Editors

...schedules still rarely allow time for thorough testing."  
HardBall Software, Inc. (www.hardballsw.com) develops and markets data delivery software that frees information in corporate **databases** for **automatic creation** of Internet, **data mart** and other **data - based** applications. The privately held company was founded in 1996 and today its products are used in dozens of Fortune 1000 companies, including Wells Fargo, US...

9/3,K/17 (Item 5 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0825639 BW1117

**LOGIC WORKS: Logic Works Announces Logic Links Partner Program**

March 24, 1998

Byline: Business Editors

...of the joint ETI and Logic Works customers would otherwise incur."

"As a part of the Logic Links program, Logic Works has expanded ERwin's **data warehouse** template offerings to **automatically create database** models supported by DecisionSuite. This enhancement enables companies to hit the ground running in the development and deployment of OLAP systems," said Larry Ford, president...

9/3,K/18 (Item 6 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0762720 BW0134

**INFORMIX HYUNDAI: Hyundai Standardizes on Informix for Global, Enterprise Data Warehouse, Data Marts and Internet Applications**

October 23, 1997

Byline: Business Editors and Computer Writers

...which has achieved record-breaking TPC-D benchmarks in the industry, including on SMP, clusters, NUMA and MPP machines.

In addition, Hyundai chose INFORMIX-OnLine **Dynamic Server(TM)**, Informix's flagship **database product**, for the deployment of its **data marts**, which is being constructed simultaneously with its enterprise data warehouse on an IBM SP2 MPP system.

It also selected as its standard Relational OnLine Analytical...

...DB2, Microsoft, Sybase and Oracle -- and with XPS, we have never lost a data warehousing customer benchmark to those competitors," Lee said.

**About Informix's Data Warehouse Products**

All of Informix's high-performance, scalable **database products** are based on its industry-leading **Dynamic Scalable Architecture(TM)** (DSA), which provides customers with a unique, secure application growth path.

INFORMIX-OnLine Extended Parallel Server (OnLine XPS) is a high-performance...

9/3,K/19 (Item 7 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0685851 BW0028

**SHOWCASE: ShowCase Corporation simplifies data warehouse administration; new STRATEGY distributor automates data cleansing, summarization, and transfer to data warehouses and data marts**

March 31, 1997

Byline: Business Editors and Computer Writers

...data, journaled and non-journaled tables, result columns combining multiple fields, and summaries of data may be specified for distribution.

STRATEGY Distributor supports the full **dynamic SQL** statement specification to **build denormalized tables** in the **data warehouse** and

implement multi-table joins, and enables consolidation and summarization of data from two or more remote OLTP servers.

In addition to specifying the data...

9/3,K/20 (Item 8 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0501377 BW1016

**ARBOR SOFTWARE: ARBOR SOFTWARE AND INFORMIX ANNOUNCE PARTNERSHIP TO DELIVER  
INTEGRATED WAREHOUSE SOLUTIONS; Integrating Relational Database Data  
Warehouses With Multidimensional Database Data Marts**

July 18, 1995

Byline: Business Editors/Computer Writers

...feature that will provide users with a direct link between the summarized, analytical data held in Essbase and the detail data stored in an Informix **data warehouse database** by **automatically generating** live SQL queries from Essbase to Informix.

Arbor has joined InSync, Informix's partner program for independent software vendors committed to providing horizontal, Informix-compatible...

9/3,K/21 (Item 9 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0407852 BW618

**PRISM 2: Prism unveils new data warehouse management software**

May 24, 1994

Byline: Business Editors and Computer Writers

...users can leverage the unique strengths offered by both companies as they implement large-scale decision support systems."

In addition, Prism now allows users to **build data warehouses** using the INFORMIX-OnLine **Dynamic Server database** . Prism and Informix have formed a partnership to market this solution to customers. (Refer to Informix, Prism to Market New Data Warehousing Products, May 24...

9/3,K/22 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

01247238 CMP ACCESSION NUMBER: NWC20011217S0014  
**DATA MANAGEMENT & STORAGE TECHNOLOGY - Even As The Economy Remains In The  
Slow Lane, Innovations Are Speeding Up For The Products No Business  
Can Do Without.**

Steven J. Schuchart Jr.  
NETWORK COMPUTING, 2001, n 1226, PG77  
PUBLICATION DATE: 011217  
JOURNAL CODE: NWC LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: THE SURVIVOR'S GUIDE TO 2002  
WORD COUNT: 2567

... buying market. Like a home, a database is a necessary thing, and even in economic downturns, necessary things sell. Databases are vital technology components that **build business**. **Databases** feed Web-based **dynamic** content and facilitate page updates; they reuse data across multiple applications and reduce redundancy; they also store in **data warehouses** information that's culled, mined and aggregated by business applications and knowledge-discovery tools.

Yes, this market continued growing in 2000, albeit at a slower...

9/3,K/23 (Item 2 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

01227470 CMP ACCESSION NUMBER: IWK20001120S0030  
**Oracle Aims To Bring Data Warehousing To Net Speed - ORACLE9I DATABASE  
WILL INCLUDE DATA TRANSFORMATION, PERSONALIZATION, AND OLAP**  
RICK WHITING  
INFORMATIONWEEK, 2000, n 813, PG42  
PUBLICATION DATE: 001120  
JOURNAL CODE: IWK LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: TOP OF THE WEEK  
WORD COUNT: 374

... release 2, a move that IBM, Microsoft, and NCR have already made.  
Says Agosta, " The strategic direction here is to drive data mining into  
the database ."

--

#### **Real - Time Data Warehouse Push**

New **product** plans from Oracle include:

- Oracle 9i: Built-in OLAP capabilities, real-time personalization engine
- Oracle9i release 2: Data-mining algorithms
- Oracle Warehouse Builder 3.0...

9/3,K/24 (Item 3 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

01178665 CMP ACCESSION NUMBER: IWK19981116S0086  
**Data Harvester** (What's Hot)  
INFORMATIONWEEK, 1998, n 709, PG250  
PUBLICATION DATE: 981116  
JOURNAL CODE: IWK LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Behind The News  
WORD COUNT: 86

#### **TEXT:**

Salford Systems' CART data-mining software harvests valuable knowledge from existing **databases** , **data marts** , and **data warehouses** . It can **automatically generate** easy-to-interpret decision-tree models that predict the characteristics and profitability of customers and prospects. These models can be used for segmenting databases, profiling...

9/3,K/25 (Item 1 from file: 674)  
DIALOG(R)File 674:Computer News Fulltext  
(c) 2002 IDG Communications. All rts. reserv.

085270  
**NQuire looks to provide more answers**  
Byline: JASON MESERVE  
Journal: Network World Page Number: 25  
Publication Date: June 26, 2000  
Word Count: 393 Line Count: 35

Text:

... want to have to think in Boolean algebra."NQuire is server-based software that provides access to multiple back-end data sources, including relational databases, **data warehouses**, enterprise resource planning systems and external files. In Version 2.0, announced this week, nQuire is adding support for XML data sources and host-based...

...time soon. The addition of XML also provides access to newer data stores such as online marketplaces. Query results can come in the form of **tables created on the fly** from any one of the connected data sources, Barbetta says. NQuire uses caching techniques for some queries to help improve performance. "All the results are...

9/3,K/26 (Item 2 from file: 674)

DIALOG(R)File 674:Computer News Fulltext

(c) 2002 IDG Communications. All rts. reserv.

079550

Tracking the Web in real time

Andromedia's Aria Enterprise and net.Genesis' net.Analysis raise the bar for high-end Web traffic analysis but fall short when it comes to administration.

Byline: BRADLEY SHIMMIN

Journal: Network World Page Number: 57

Publication Date: November 22, 1999

Word Count: 3004 Line Count: 270

Text:

... dynamic URLs and track cookies. They also let you monitor millions of hits per day across distributed servers and then funnel that traffic into a **data warehouse**, from which users can perform ad-hoc queries or run predefined reports. Eschewing flat-file log analysis techniques, these real-time traffic watchers post data...

... user and Web page is stored in the ObjectStore server as an individual object. Proponents of the object-oriented approach claim this allows you to **create** multidimensional relationships **on the fly**. Relational **databases**, on the other hand, must **generate** multiple indexes before fulfilling many-to-many relationship queries. Net.Analysis running on an Oracle server rests between these two ends of the spectrum, using...were good, our major complaints with these products were with their complexity and limited management tools. Each product acts as a client/server application and **data warehouse** server, yet neither comes with the tools necessary to keep the application or server running smoothly. Both products are difficult to administer due to their...

9/3,K/27 (Item 3 from file: 674)

DIALOG(R)File 674:Computer News Fulltext

(c) 2002 IDG Communications. All rts. reserv.

071674

UPDATE: Informix intros new data engines

Byline: Marc Ferranti

Journal: Network World

Publication Date: January 19, 1999

Word Count: 835 Line Count: 83

Text:

... David Appelbaum, vice president of product marketing and product management at Informix. To ease the flow of data between online transaction processing (OLTP) applications and **data warehouses** -- which hold historical information -- the new database products will incorporate software-component technology, including Java from Sun and ActiveX and OLE DB, from Microsoft. The...

...need for smart data federations, according to company officials. Company decision makers also need to be able to access and analyze data in rapidly growing **data warehouses** -- which are often multiple terabytes in size -- as well as information in legacy enterprise resource planning applications, officials said. To help users meet such requirements...

... will roll out new database engines in two main areas: OLTP and data warehousing. These database engines will be integrated into upgrades of existing company **database products** such as Informix **Dynamic Server** and Informix Extended Parallel Server, according to Appelbaum. In addition, Informix will take these base database products and integrate them with additional software options...

... shipped in the second half of 1999. Yellowstone will be integrated into the company's Decision Frontier Solution Suite as well as a variety of **data warehouse** templates for vertical markets including retail, telecommunications and finance. In these prefabricated applications Yellowstone will offer features that help developers work on data size, analytical and performance features, and functions of **data warehouses**.  
<li> A high-availability data engine for large companies code-named Independence, which is set for release in 2000. Informix is billing this as the...

9/3,K/28 (Item 4 from file: 674)  
DIALOG(R)File 674:Computer News Fulltext  
(c) 2002 IDG Communications. All rts. reserv.

059699

**Briefs**

**Briefs**

**Briefs**

Byline: chart, What is your PC operating system mix?, source: Forrester Research, Inc., Cambridge, Mass.

Journal: Computeworld Page Number: 47

Publication Date: May 26, 1997

Word Count: 199 Line Count: 21

Text:

Software

Data mart tool

Informatica Corp. in Menlo Park, Calif., plans next week to introduce a new version of its PowerMart **data mart** tools and a companion **product** that enables **real - time** warehousing of **production database** updates. PowerMart 3.5 will support parallel loading of **data marts** and be able to pull information out of source databases via the Open Database Connectivity specification, Informatica officials said. Pricing will start at \$45,000...

9/3,K/29 (Item 1 from file: 813)  
DIALOG(R)File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

1300279

MNM028

**Information Advantage to Acquire IQ Software**

DATE: June 29, 1998

16:41 EDT

WORD COUNT: 1,178

...reporting applications."

Information Advantage is a leading provider of robust, relational OLAP solutions for enterprise deployments. Its award winning, scalable DecisionSuite(R) product line supports **data mart** or **data warehouse** implementations for thousands of users and terabytes of data, and provides access and analysis capabilities via the Internet, intranet or extranet. IQ Software is a...

... software. Its products use an Internet-based, scalable architecture to

deliver information from multiple sources to any user, including OLAP cubes for mobile users. **IQ products dynamically** access information from all major relational **databases**, enterprise applications including SAP, and from the dimensional databases Microsoft Plato and Arbor Essbase, on NT and UNIX platforms.

"The Information Advantage acquisition of IQ...

9/3,K/30 (Item 2 from file: 813)  
DIALOG(R)File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

1299636 SFM031  
**Embarcadero's Data Modeling Solution, ER Studio Version 2.6, Introduces Major Performance and Meta Data Management Improvements**

DATE: June 29, 1998 08:02 EDT WORD COUNT: 767

... derive from them any number of physical database designs of the same or different DBMS platforms. Physical database objects for most popular SQL and desktop **databases** can be **automatically generated** or altered from the physical designs. Industry-leading comparison and synchronization capabilities assist in the organization and management of multiple design views. ER/Studio targets the needs of database modelers, administrators, developers, data architects and systems integrators who design or maintain complex **data warehouse** and OLTP applications.

Significant new features:

Export Model Schema and Data: ER/Studio 2.6 can export the metadata underlying data models to many SQL...

9/3,K/31 (Item 3 from file: 813)  
DIALOG(R)File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

0814966 NY016  
**ORACLE7 IS FIRST TO MARKET WITH GENERALLY AVAILABLE PARALLEL DATABASE FOR IBM SP2**

DATE: May 2, 1995 14:00 EDT WORD COUNT: 1,455

...from overnight to hours or minutes enabling organizations to make better business decisions faster.

Oracle offers products that help customers create, administer and use their **data warehouse**. Oracle has a large suite of connect **products** that provide **transparent** access to many popular mainframe **databases**. Through the use of these products, customers can move data from legacy mainframe applications into the **data warehouse** on the SP2.

Oracle Corp., a \$2 billion company with headquarters in Redwood Shores, Calif., is the world's leading supplier of information management software...

9/3,K/32 (Item 1 from file: 613)  
DIALOG(R)File 613:PR Newswire  
(c) 2002 PR Newswire Association Inc. All rts. reserv.

00844436 20021029FLTU010 (USE FORMAT 7 FOR FULLTEXT)  
**Newest Release from COMPROSE, Inc. Represents Advance**  
PR Newswire  
Tuesday, October 29, 2002 08:59 EST  
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE



WORD COUNT: 521

TEXT:

...content types to  
achieve unique knowledge applications.

According to Senior Design Architect John Lewis, "We describe Zavanta's underlying engine as a 'dynamic, intelligent, graphical **data warehouse** generator.' Using our friendly graphical user interface, even a non-technical manager can design a custom input interface based on their unique requirements and preferences. Then Zavanta **automatically generates** the underlying **database** structures for them. Among other benefits, our unique architecture allows Zavanta to be database independent. Users already can have their choice of MS ACCESS(R...

9/3,K/33 (Item 2 from file: 613)

DIALOG(R)File 613:PR Newswire

(c) 2002 PR Newswire Association Inc. All rts. reserv.

00844323 20021029PHTU014 (USE FORMAT 7 FOR FULLTEXT)

**Newest Release from COMPROSE, Inc. Represents Major Advance**

PR-Newswire-----

Tuesday, October 29, 2002 07:47 EST

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 525

TEXT:

...content types to  
achieve unique knowledge applications.

According to Senior Design Architect John Lewis, "We describe Zavanta's underlying engine as a 'dynamic, intelligent, graphical **data warehouse** generator.' Using our friendly graphical user interface, even a 'non-technical' manager can 'design' a custom input interface based on their unique requirements and preferences. Then Zavanta **automatically generates** the underlying **database** structures for them. Among other benefits, our unique architecture allows Zavanta to be database independent. Users already can have their choice of MS ACCESS(R...

9/3,K/34 (Item 3 from file: 613)

DIALOG(R)File 613:PR Newswire

(c) 2002 PR Newswire Association Inc. All rts. reserv.

00419424 20000920NYW102 (USE FORMAT 7 FOR FULLTEXT)

**Computer Associates Extends Leadership in Data Modeling with Debut of Erwin Examiner**

PR Newswire

Wednesday, September 20, 2000 14:05 EDT

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 774

...ERwin Examiner analyzes data models to identify inconsistencies that adversely affect database integrity and efficiency. By providing a comprehensive set of diagnostics, ERwin Examiner validates **database** design, recommends improvements and **automatically generates** alter scripts to quickly execute design changes. Detailed diagnostic reports illustrate structural inconsistencies in a conveniently organized format. ERwin Examiner also fine-tunes a user's database design to ensure a solid foundation for

eBusiness  
application and **data warehouse** implementations.

"ERwin Examiner is the only product we have found that will check the quality of our database structure," said Ken Hughes, president of Relational...

9/3,K/35 (Item 4 from file: 613)

DIALOG(R)File 613:PR Newswire

(c) 2002 PR Newswire Association Inc. All rts. reserv.

00189038 19991006SFW020 (USE FORMAT 7 FOR FULLTEXT)

**Brio Ships Next Generation of Most Widely Deployed Enterprise Information Portal**

PR Newswire

Wednesday, October 6, 1999 08:30 EDT

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 780

TEXT:

...of the  
portal's content and interface.

Today, organizations must provide employees with access to information from a myriad of sources such as production applications, **data warehouses** and

**data marts**, Websites, and legacy applications. Brio.Portal's open framework

enables companies to leverage existing IT investments and provides users a personalized view of relevant information...

...Portal provides users with a secure browser-based access point for real-time information. Specifically, Brio.Portal now allows users to execute

reports off of **production** systems or **databases**, and update content **automatically** and **transparently** from underlying applications. For example,

Brio.Portal now acts as the intuitive front-ends to reports from various business applications, such as Oracle financials, SAP...

9/3,K/36 (Item 1 from file: 610)

DIALOG(R)File 610:Business Wire

(c) 2002 Business Wire. All rts. reserv.

00616132 20011106310B9033 (USE FORMAT 7 FOR FULLTEXT)

**USDATA's Xfactory 2.0 Helps Manufacturers Respond in Difficult Times-Latest MES Product Release Expands Knowledge and Control Capabilities for Manufacturers**

Business Wire

Tuesday, November 6, 2001 14:03 EST

JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 931

...Indicator (KPI)

web accessible reports. These can be used standalone or can be easily integrated into a company's current Intranet and Internets.

- A new **Data Warehouse** Module allows data from the production database to be "warehoused" or stored to an archive database. It supports both Microsoft SQL 7.0 (or later) and Oracle 8I **databases**.
- The **Real - time Production** Module provides better control of processes by displaying a variety of views of the current status of the manufacturing process in action, giving its users...

9/3,K/37 (Item 2 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2002 Business Wire. All rts. reserv.

00551373 20010710191B1774 (USE FORMAT 7 FOR FULLTEXT)  
**ecom and Synera Partner to Offer Customer Focused CRM Solutions**  
Business Wire  
Tuesday, July 10, 2001 08:15 EDT  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 440

...allows ecom to offer an end-to-end CRM solution that focuses on the customer.  
This solution integrates customer data from various systems into a **data warehouse**, using our own Datagration software. Then, with Synera's new Exploration Database **product**, we can analyze the customer **data base**, and provide **real time** customer support that leverages the power of data and helps turn a cost center activity into a profit center."

Paladyne completed its acquisition of ecom...

9/3,K/38 (Item 3 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2002 Business Wire. All rts. reserv.

00157474 19991215349B1217 (USE FORMAT 7 FOR FULLTEXT)  
**Unica Announces UNICA PERSPECTIVE! The Web Portal Designed Exclusively for Marketers; Portal Offers Easy-To-Use, Customizable Reporting Options**  
Business Wire  
Wednesday, December 15, 1999 09:05 EST  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 703

...the organization and for each individual.

UNICA PERSPECTIVE! can be integrated with existing intranet and Internet services, as well as other enterprise reporting infrastructures. The **product** provides direct, **dynamic** access to standard relational **database** repositories, **data warehouses** and **data marts**, including data from On-line Analytical Processing (OLAP) query and reporting tools. Unica consulting services provide installation and training support.

UNICA PERSPECTIVE! includes industry standard...

9/3,K/39 (Item 4 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2002 Business Wire. All rts. reserv.

00084327 19990803215B1169 (USE FORMAT 7 FOR FULLTEXT)  
**HardBall Software Ships Version 3.1 of DataShark Data Delivery Software; Latest Version of DataShark for Oracle Creates Databases for Internet Faster, More Efficiently**  
Business Wire  
Tuesday, August 3, 1999 09:19 EDT  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 634

...1 operates on Solaris UNIX.

DataShark extracts, creates, and morphs data that developers use to build back ends for Internet applications, jump start and update **data warehouses** and **data marts**, and test application logic. The software allows developers to **automatically create a database** structure from schemas or reverse-engineer from a production database. It also enables users to drill down through levels of information in Oracle databases, merge...

...such as Excel and HTML.

About HardBall Software

HardBall Software, Inc. (www.hardballsw.com) develops and markets data delivery software that frees information in corporate **databases** for **automatic creation** of data for Internet, **data mart** and other data-based applications. The privately held company was founded in 1996, and today its products are used in such Fortune 500 companies as...

9/3,K/40 (Item 5 from file: 610)

DIALOG(R)File 610:Business Wire

(c) 2002 Business Wire. All rts. reserv.

00070905 19990707188B0467 (USE FORMAT 7 FOR FULLTEXT)

**South Texas Project Installs HardBall Software's DataShark for Oracle Business Wire**

Wednesday, July 7, 1999 11:41 EDT

JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 581

...information centered company."

DataShark for Oracle extracts, creates, and morphs data that developers use to build back ends for Internet applications, jump start and update **data warehouses** and **data marts**, and test application logic. The tool allows developers to **automatically create a database** structure from schemas or reverse-engineer from production databases. It enables power users to drill down through levels of information in Oracle databases, merge data...

...more

than one million homes.

About HardBall Software

HardBall Software, Inc. (www.hardballsw.com) develops and markets data delivery software that frees information in corporate **databases** for **automatic creation** of Internet, **data mart** and other **data - based** applications. The privately held company was founded in 1996, and today its products are used in such Fortune 500 companies as Oracle, Oxford Health, Unisys...

9/3,K/41 (Item 6 from file: 610)

DIALOG(R)File 610:Business Wire

(c) 2002 Business Wire. All rts. reserv.

00050203 19990525145B1348 (USE FORMAT 7 FOR FULLTEXT)

**Burlington Coat Factory Tailors Subset Oracle Databases With HardBall Software's DataShark**

Business Wire

Tuesday, May 25, 1999 11:35 EDT

JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 616

...this advanced shop."

DataShark for Oracle extracts, creates, and morphs data that developers use to build back ends for Internet applications, jump start and update **data warehouses** and **data marts**, and test application logic. The tool allows developers to **automatically create a database** structure from schemas or reverse-engineer from production databases.

DataShark incorporates HardBall's ViewShark software, which allows developers and power users to drill down through...  
...site at [www.coat.com](http://www.coat.com). About HardBall Software

HardBall Software, Inc. ([www.hardballsw.com](http://www.hardballsw.com)) develops and markets data delivery software that frees information in corporate **databases** for **automatic creation** of Internet, **data mart** and other **data - based** applications. The privately held company was founded in 1996, and today its products are used in such Fortune 500 companies as Oracle, Oxford Health, Unisys...

9/3,K/42 (Item 7 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2002 Business Wire. All rts. reserv.

00022096 1999088B1227 (USE FORMAT 7 FOR FULLTEXT)  
**HardBall Software's ViewShark Software Lets Knowledge Workers Extract Oracle Data to Spreadsheets and Web Sites**  
Business Wire  
Monday, March 29, 1999 09:54 EDT  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 566

...for venture capitalists and entrepreneurs. About HardBall Software

HardBall Software, Inc. ([www.hardballsw.com](http://www.hardballsw.com)) develops and markets data delivery software that frees information in corporate **databases** for **automatic creation** of Internet, **data mart** and other **data - based** applications. The privately held company was founded in 1996, and today its products are used in such Fortune 500 companies as Oracle, Oxford Health, Unisys...

13/3,K/1 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

02154389 71475324

**Rival Java tools on par for creation of business applications**

Biggs, Maggie

InfoWorld v23n16 PP: 79-80 Apr 16, 2001

ISSN: 0199-6649 JRNL CODE: IFW

WORD COUNT: 1616

...TEXT: that support for transparent persistence, which is based on the Java

Data Objects standard, is included in this release. Among other things, developers can leverage **transparent** persistence to **create** Java-based persistent objects from **database schema** or add persistence to existing Java objects. Developers may also leverage transparent persistence support for Java Query Language to access data more easily. If XML...

... is what you need, Forte for Java is up to the task. It automatically parses XML files in the presence of a DTD (Document Type **Definition**), and it includes an XML-specific editor that makes modifying code a breeze.

Although we usually prefer to use a text editor to write code...

13/3,K/2 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

02090048 63308835

**Discovering next generation tourism information systems: A tour on TIScover**

Proll, Birgit; Retschitzegger, Werner

Journal of Travel Research v39n2 PP: 182-191 Nov 2000

ISSN: 0047-2875 JRNL CODE: JTR

WORD COUNT: 7278

...TEXT: snow reports.

**Internal Layer**

The Internal Layer is situated beneath the Public Access Layer. Its core component is represented by the TIScover database. The database **schema** of TIScover Austria consists of approximately 300 database tables and has been constructed on the basis of a domain data model. This incorporates all conceptual entities gathered during the process of requirement **definition** from numerous tourism information providers and from the experiences with the predecessor systems TIS (Ebner 1994) and TIS@WEB (Burger et al. 1997). Currently, the...

... approximately two gigabytes of data covering 2,000 towns and villages and nearly 40,000 lodgings. To facilitate efficient and reliable access, Web pages are **automatically generated** from the **database** every time the underlying data changes. As a result, more than 400,000 Web pages are stored in some million files (Proll et al. 1999...

13/3,K/3 (Item 3 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

01956345 46628173

**PowerTier exerts its midtier might**

Fielden, Tim

InfoWorld v21n47 PP: 64, 66 Nov 22, 1999

ISSN: 0199-6649 JRNL CODE: IFW

WORD COUNT: 987

...TEXT: aptly named the Object Builder. I found the graphical Object Builder extremely easy to use when entering information about my object model and its database **schema**.

THE TOOLS IN OBJECT BUILDER'S graphical interface make defining and mapping data to objects a simple affair.

PowerTier for Enterprise JavaBeans Version 5.12

Once-- both--my mapping and **definition** were complete, PowerTier **automatically** created my entity beans. Mapping **database tables** directly to entity beans eliminates the need for specialized Java Database Connectivity (JDBC) or SQL coding. Furthermore, by encapsulating relational data as container-managed persistent...

13/3,K/4 (Item 4 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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01665611 03-16601

**ObjectStore 5.1 stands out for data management**

Biggs, Maggie

InfoWorld v20n28 PP: 107 Jul 13, 1998

ISSN: 0199-6649 JRNL CODE: IFW

WORD COUNT: 507

...TEXT: and the Component Wizard greatly simplified creating test data.

The Database Designer is a drag-and-drop interface that helps you define your database, including class **definitions**, and relationships. In addition, the Database Designer also generates **schema** files for you.

The Component Wizard takes the **schema** files **created** with the Database Designer and **automatically** generates components based on the **schema** information. My copy of this ObjectStore release supported components for Visual C++, Component Object Model objects, and Unix header/ makefiles.

I was disappointed that the...

13/3,K/5 (Item 5 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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01231382 98-80777

**InfoModeler eases data handling**

Stoughton, Alan M

InfoWorld v18n25 PP: 149 Jun 17, 1996

ISSN: 0199-6649 JRNL CODE: IFW

WORD COUNT: 1053

...TEXT: Relationship (ER) modeling methodologies (favored by most modeling tools).

In addition to forwardengineering a model by connecting to a target database and generating a new **schema**, InfoModeler can also be used to reverseengineer an existing database to produce a model document from the database's physical catalog. Wizards guide you through key operations, and the Enterprise version supports multimodel development and team-oriented project **definition**. The Developer edition, promised for late summer, will use the InfoModeler's data dictionary to **automatically** generate client-side Microsoft Visual Basic forms.

( Table Omitted)

I installed an Early Access version of InfoModeler Designer Enterprise edition from CD-ROM on a 120MHz Pentium system with 16MB of RAM. The...

13/3,K/6 (Item 6 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

00956375 96-05768

**Rational gets tailored for SQLWindows and ObjectPro**

Mace, Scott

InfoWorld v16n50 PP: 32 Dec 12, 1994

ISSN: 0199-6649 JRNL CODE: IFW

WORD COUNT: 315

...TEXT: that have servers and clients sharing a middle tier of objects that define business logic.

Using the tool, developers can graphically model their applications and **automatically generate** source code and **database schemas**, according to the company.

Rational Rose/SQLWindows--to be sold only by Rational--will generate source code for SQLWindows, as well as provide library files, functional classes, general windows classes, form windows, and dialog boxes. It will also generate Gupta SQLBase and Oracle Corp. Oracle7 database **definitions**.

Rational Rose/ObjectPro for Windows and OS/2 lets developers generate object-oriented source code for ObjectPro and is available from both Rational and Trinzic...

13/3,K/7 (Item 1 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

0511251 94-65587

**SQL Studio Version 2.0 extends visual interface to Oracle7**

Lichtblau, David

Business Wire (San Francisco, CA, US) s1 p1

PUBL DATE: 940712

WORD COUNT: 835

DATELINE: San Francisco, CA, US

TEXT:

...rewind and conveniently single-step through scripts. SQL Studio remembers the most recently executed scripts, making it convenient to rerun them later.

Users can also **create** scripts **automatically** based on their actual **database definitions**. This makes it easy to export the **definition** of a table from one schema, for example, and recreate it in another **schema**.

SQL Studio supports exporting entire sets of objects. In an environment with separate testing and production databases, a programmer with SQL Studio can export the **definitions** of all of the tables, indexes and views from a database with only a few mouse clicks.

Advanced Role Manager

SQL Studio's new Role...

13/3,K/8 (Item 2 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

0145748 90-28778

**Servio Corp. Announces New Version of GemStone -- Sets New Standard for Object Databases**

Rutter, Carole; Blanc, Maureen

*scripts  
creation  
(not db)*



Business Wire (San Francisco, CA, US) s1 p1  
PUBL DATE: 900611  
WORD COUNT: 1,168  
DATELINE: Alameda, CA, US

TEXT:

...developers and casual users that provides the full functionality of conventional database tools and object extensions. The first of the GemStone Tools, the GemStone Visual **Schema** Designer, will be available in conjunction with the release of GemStone 2.0.

The **schema** designer is a graphical tool for creating class **definitions** in GemStone. Utilizing a point-and-click interface, users may directly manipulate classes and relationships between classes in a consistent, intuitive manner.

It allows the...

...and their instance variables, create and manipulate the class hierarchy, and define sets to hold collections of objects. Implemented in X Window/OSF-Motif, the **schema** produces code which is automatically integrated into the **database**.

In a statement of direction, Servio also announced GemStone Tools that include:

"GemStone Forms," a graphical form design and run-time tool implemented within a...

13/3,K/9 (Item 1 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0886162 BW1003

VISIBLE SYSTEMS: Visible Now Shipping EasyER/EasyOBJECT 2.0

July 29, 1998

Byline: Business/Technology Editors

...data modeling tool. Version 2.0's capabilities now include new support for the design and specification of database views, compare and alter of database **schemas** for iterative development, reverse-engineering of SQL DDL scripts, and HTML web publishing. EasyER/EasyOBJECT has all of the competitive features of more expensive database design tools is priced at only \$1,695.

EasyER/EasyOBJECT is a powerful, multi-level database design tool that allows users to **create** logical data models and also specify physical **database** design information. The **product** features **automatic database** and **schema generation**, accurate reverse-engineering of **databases**, powerful reporting facilities, and extensive on-line documentation. EasyER/EasyOBJECT is built on a client/server data dictionary, which functions as an integrated repository for the central storage of charts and object **definitions**. The repository allows stored information, such as entities, attributes, object-oriented (OO) classes, OO methods and relationships, to be quickly and easily accessed and used...

13/3,K/10 (Item 2 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0485216 BW1093

VERSANT ISR GLOBAL: Versant partners with ISR Global Telecom

May 09, 1995

Byline: Business Editors & Communications Writers

...to build the next generation of element and network management systems based upon the TMN architecture. Both offerings include a comprehensive GDMO (Guidelines for the **Definition** of Management Objects) compiler capable of generating VERSANT ODBMS persistent **schema**, support for CMISE (Common Management Information Services), and support for industry-standard MIBS (Management Information Bases) like Hybrid Fiber Coax, SONET, SDH, and ATM.

"Over...

...Wetmore, director of Telecommunications at Versant. "ISR Global Telecom's object modeling expertise, coupled with VERSANT's support for TMN functionality, like event notification and **transparent database** replication, allow customers to **build** effective 24x7 management applications. ISR Global Telecom's advanced TMN toolkit enables organizations to harness the power offered by truly object-based agent and manager...

13/3,K/11 (Item 3 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0416186 BW0003

STANFORD TECHNOLOGY: SQL Studio Version 2.0 extends visual interface to Oracle<sup>7</sup> for programmers and DBAs

July 12, 1994

Byline: Business Editors and Computer Writers

...rewind and conveniently single-step through scripts. SQL Studio remembers the most recently executed scripts, making it convenient to rerun them later.

Users can also **create** scripts **automatically** based on their actual **database definitions**. This makes it easy to export the **definition** of a table from one **schema**, for example, and recreate it in another **schema**. SQL Studio supports exporting entire sets of objects. In an environment with separate testing and production databases, a programmer with SQL Studio can export the **definitions** of all of the tables, indexes and views from a database with only a few mouse clicks.

Advanced Role Manager  
SQL Studio's new Role...

13/3,K/12 (Item 4 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0179792 BW120

SERVIO: Servio Corp. announces new version of GemStone -- sets new standard for object databases

June 11, 1990

Byline: Business Editors/Computer Writers

...developers and casual users that provides the full functionality of conventional database tools and object

extensions. The first of the GemStone Tools, the GemStone Visual **Schema Designer**, will be available in conjunction with the release of GemStone 2.0.

The **schema** designer is a graphical tool for creating class **definitions** in GemStone. Utilizing a point-and-click interface, users may directly manipulate classes and relationships between classes in a consistent, intuitive manner.

It allows the...

...and their instance variables, create and manipulate the class hierarchy, and define sets to hold collections of objects. Implemented in X Window/OSF-Motif, the **schema produces** code which is **automatically** integrated into the **database**.

In a statement of direction, Servio also announced GemStone Tools that include:

"GemStone Forms," a graphical form design and run-time tool implemented within a...

13/3,K/13 (Item 1 from file: 647)

DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

00583043 CMP ACCESSION NUMBER: UNX19900709S5595

New GemStone 2.0 ODBMS In The Works - Enhancements To Include C++ Support,  
High Availability

UNIX TODAY , 1990, n 049, 19

PUBLICATION DATE: 900709

JOURNAL CODE: UNX LANGUAGE: English

RECORD TYPE: Fulltext

SECTION HEADING: PRODUCTS

WORD COUNT: 427

... PCs and compatibles and the Apple Macintosh II.

Servio also announced plans for visual programming tools, the first of which will be the GemStone Visual **Schema Designer**, a Motif- supporting graphical tool for creating class **definitions**. The tool, which will be released in conjunction with GemStone 2.0, uses a point- and-click interface to manipulate classes and relationships between them. Code **produced** by the tool is **automatically** integrated into the **database**. Pricing has not yet been announced.

Other GemStone tools planned for winter 1991 release include: Forms , a graphical form design and run-time tool implemented...

13/3,K/14 (Item 1 from file: 813)

DIALOG(R)File 813:PR Newswire

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1243951

NETU024

Object Design Unveils Rapid Database Development Initiative

DATE: March 17, 1998

09:34 EST

WORD COUNT: 614

...of RAD tool, such as Visual Basic, Delphi, and PowerBuilder. This allows developers to spend more time creating application business logic instead of writing database **definition** and manipulation code.

Database Designer

The ObjectStore Database Designer is a GUI-based **schema** designer that lets programmers easily define and design their entire ObjectStore database. This easy-to-use interface helps programmers quickly define object class **definitions**, their data members, and class relationships in an intuitive drag-and-drop workspace. The **Database Designer** then **automatically generates** language-neutral and environment-neutral ObjectStore **schema** files.

#### Component Wizard

The second feature, the ObjectStore Component Wizard, uses the **schema** file **generated** by the **Database Designer** to **automatically create** ready-to-use ObjectStore components based on that **schema**. The initial release of the Component Wizard generates Visual C++ components, COM objects, and UNIX header/makefiles. Future plans include support for Java components and...

13/3,K/15 (Item 2 from file: 813)

DIALOG(R)File 813:PR Newswire

(c) 1999 PR Newswire Association Inc. All rts. reserv.

0925637

SFM013

#### SYBASE INTRODUCES MIDDLEWARE TO BRIDGE OBJECT-BASED APPLICATIONS WITH RELATIONAL DATABASES

DATE: March 18, 1996

08:01 EST

WORD COUNT: 873

...ObjectCONNECT transforms simple relational data in SQL Server, and other leading databases, into complex business objects.

ObjectCONNECT also adapts easily to changes in business processes, **automatically generating** new objects based on **database schemas**. This allows the application to adapt to changing business conditions without recoding.

In addition to improved time-to-market and competitive gains, ObjectCONNECT can also...

...build efficient object-based applications, while leveraging existing technologies and database systems. Most corporations store their data in existing relational formats; ObjectCONNECT uses their existing **schema definitions** for mapping purposes. It creates object models from **schema** allowing new applications to be built that use existing data in new and productive ways.

#### Pricing and Availability

ObjectCONNECT for C++ will be generally available...

13/3,K/16 (Item 1 from file: 613)

DIALOG(R)File 613:PR Newswire

(c) 2002 PR Newswire Association Inc. All rts. reserv.

00513628 20010212NEM078 (USE FORMAT 7 FOR FULLTEXT)

#### Neteos Rolls Out Version 2.0 of Ermmnow! - Sets A New Standard for Adaptability of Enterprise Ecrm

PR Newswire

Monday, February 12, 2001 11:28 EST

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 729

...database technology skills required, a designer can sit at the Design Studio console and follow simple menus using business process terminology to create the application **definition** model. Once defined, the

Design Studio post-processing engine **automatically builds** all HTML screens, wireless device renderings, and **database schema** and table **definitions** and prepares an application meta-data **definition** that ultimately drives the Neteos

core eRMNow! platform.

Enhanced Active-Web extends eRMNow! into any eCommerce or Web Environment!

Active-Web links any element of...

13/3,K/17 (Item 2 from file: 613)

DIALOG(R)File 613:PR Newswire

(c) 2002 PR Newswire Association Inc. All rts. reserv.

00313095 20000414CGF066 (USE FORMAT 7 FOR FULLTEXT)

**Intelligent Medical Objects Announces Sale of Virtual DbA(TM) Database Analysis Application to Quest Software**

PR Newswire

Friday, April 14, 2000 18:33 EDT

JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 572

TEXT:

...procedures that are on everyone's wish list when dealing with an install base of many similar databases. It offers a view into the structural **definition** of a relational database **schema** and provides feedback on a myriad of database properties. VDBA allows for reverse engineering of **database schemas**, analysis of **database** design flaws, **automatic creation** of **build** scripts, comparison between **database schemas** with **creation** of migration scripts, and many other valuable functions. It provides full support for Oracle's Oracle7 and Oracle8 (ORCL) databases, Microsoft SQL Server 6.5...

13/3,K/18 (Item 1 from file: 610)

DIALOG(R)File 610:Business Wire

(c) 2002 Business Wire. All rts. reserv.

00377146 20001003277B3700 (USE FORMAT 7 FOR FULLTEXT)

**NeoCore Wins Award for Best Technology Innovation**

Business Wire

Tuesday, October 3, 2000 14:24 EDT

JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

DOCUMENT TYPE: NEWSWIRE

WORD COUNT: 390

...again have to bring its system down to reconfigure a database," he says. "Anyone can intuitively use the extensibility of XML with no premeditation, no **schema** and no document type **definitions** (DTDs). Any XML document can be inserted with a single command while the network is running. Virtual **databases** **build** themselves **on the fly**."

Other applications using NeoCore technology include pattern matching, network security, web filtering, content scanning, software development kits and information management. NeoCore is exploring other applications...

16/3,K/1 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01536069 01-87057

**Document your database**

Feibus, Andy

Informationweek n656 PP: 1A-10A Nov 10, 1997

ISSN: 8750-6874 JRNL CODE: IWK

WORD-COUNT:-2783

**ABSTRACT:** The following tools to let users reengineer their database for n-tier applications are reviewed: 1. Logic Works' **ERwin** /ERX 3.0, 2. Embarcadero Technologies' ER/Studio 2.0, 3. Sybase's PowerDesigner Data Architect 6.0, 4. Popkin Software and Systems' SA/Data...

... EasyER, 8. InfoModelers' InfoModeler, Visio's Visio Professional 4.5, and A.D. Experts' 4Keeps 2.0. All these packages let users diagram their database **tables**, fields, keys and relationships. They also let them **automatically create the actual database**. They support numerous **databases** via Open Database Connectivity (ODBC) drivers and let users reverse-engineer an existing database into a physical model. ...

16/3,K/2 (Item 1 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

0595190 95-51293

**Logic Works announces ERwin/OPEN**

Page, Lina

Business Wire (San Francisco, CA, US) s1 p1

PUBL DATE: 950502

WORD COUNT: 847

DATELINE: San Francisco, CA, US

**TEXT:**

...Curt Monash, Ph.D., president of Monash Information Services.  
"Integrated database design -- and especially stored procedure generation -- is important no matter which tool you use. **ERwin** /OPEN makes it easier to achieve these objectives."

**ERwin** is a powerful application modeling tool that allows developers to create a graphical Entity-Relationship diagram of their data.

Through a direct Server FRE (Server Forward and Reverse-Engineering) connection to the **database** catalog, **ERwin** **automatically generates** the physical **database** schema code as well as stored procedures and triggers that enforce referential integrity. **ERwin** can use the same connection to reverse-engineer an existing database into a logical data model.

**ERwin** /OPEN's dictionary architecture speeds client/server development.

Taking database design a step further, **ERwin** /OPEN will let developers define PowerBuilder, SQL Windows or Microsoft Visual Basic extended attributes (such as class style, client-side validation, initial value, height, width...

16/3,K/3 (Item 2 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

0586996 95-43022

**Logic Works introduces ERwin for SQLWindows**

Perry, Shelley Rhoads  
Business Wire (San Francisco, CA, US) s1 p1  
PUBL DATE: 950404  
WORD COUNT: 848  
DATELINE: Princeton, NJ, US

TEXT:

...tightly integrates with SQLWindows. Now SQLWindows developers can base their client/server applications on a quality database design, using familiar QuickObjects architecture."

At its core, **ERwin** is a powerful, easy-to-use database design tool that allows developers to create a graphical Entity-Relationship (E-R) diagram of their data. Through a direct connection to the DBMS called Server FRE (Server Forward and Reverse Engineering), **ERwin** automatically generates a physical database structure, including tables and the stored procedures and triggers that enforce referential integrity.

**ERwin** can use the same connection to reverse-engineer an existing database into a logical data model. In addition, all **ERwin** products link to Logic Works' RPTwin, a graphical, banded report writer for easy report generation.

**ERwin** for SQLWindows takes the database design significantly further by allowing developers to specify both SQLWindows extended attributes (class style, client-side validation, initial value, justification...

16/3,K/4 (Item 3 from file: 635)  
DIALOG(R)File 635:Business Dateline(R)  
(c) 2002 ProQuest Info&Learning. All rts. reserv.

0533468 94-88358  
Logic Works announces **ERwin** for Oracle-CASE  
Whitney, Jeffrey  
Business Wire (San Francisco, CA, US) s1 p1  
PUBL DATE: 940927  
WORD COUNT: 702  
DATELINE: San Francisco, CA, US

TEXT:

...to-use, Windows-based interface. Each ER diagram displays all entities, attributes, relationships, primary and foreign keys, and index indicators. As you build data models, **ERwin** helps you to normalize tables, capture business rules and establish referential integrity, thereby building a solid foundation for client/server application development.

**ERwin**'s Server FRE (forward- and reverse-engineering) directly links to Oracle databases, enabling database administrators to drive system tables directly from the logical model. **ERwin** automatically generates tables, indexes, referential integrity (primary and foreign key), triggers (including Oracle7 triggers), defaults and domain/column constraints. It also supports reverse-engineering and migration from desktop and SQL databases such as Oracle 6, DB2 and Rdb to the Oracle7 environment.

**ERwin** for Oracle-CASE gives database administrators the flexibility to import Oracle-CASE diagrams directly from the Oracle-CASE Dictionary. Diagrams can be modified in **ERwin**...

16/3,K/5 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
(c) 2002 Resp. DB Svcs. All rts. reserv.  
01171371 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
LOGIC WORKS, GUPTA TEAM UP

(Logic Works ships version of ERwin/ERX database modeling tool)

CommunicationsWeek, n 553, p 16

April 17, 1995

DOCUMENT TYPE: Journal ISSN: 0748-8121 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 58

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

Logic Works Inc., Princeton, N.J., is shipping a version of its database modeling tool, **ERwin** /ERX, optimized for Gupta Corp.'s SQLWindows. **ERwin** automatically generates a database design through a connection to the database, called Server Forward and Reverse Engineering. The companies said they will bundle the product with SQLWindows 5.0 for \$5,295. **ERwin** for SQLWindows alone costs \$3,495. (609-252-1177.) ...

16/3,K/6 (Item 2 from file: 9)

DIALOG(R)File 9:Business & Industry(R)

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01086946 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**ERwin Database Modeler Enhanced**

(Logic Works released a new version of ERwin/ERX, its database modeler, to integrate legacy databases with new client/server applications)

CommunicationsWeek, n 535, p 16

December 12, 1994

DOCUMENT TYPE: Journal ISSN: 0748-8121 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 290

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...with new client/server applications and adding the ability to generate server database code.

The changes are part of the company's effort to expand **ERwin** 's modeling capabilities and tie them to a range of client/server development tools.

These tools can more effectively work with reusable logical models from which code can be automatically generated for different brands of relational database management systems.

Microsoft Corp. Windows PC users graphically build what are known as Entity-Relationship (ER) diagrams that reflect a company's business rules and policies, said Frank Cicio, vice president of sales and marketing for Logic Works, based here. **ERwin** then generates the Structured Query Language code or the Data Definition Language code to build the application database on RDBMSs.

More Databases Targeted

"ERwin is...

16/3,K/7 (Item 1 from file: 810)

DIALOG(R)File 810:Business Wire

(c) 1999 Business Wire . All rts. reserv.

0822361 BW1062

**INFORMATION ADVANTAGE: Information Advantage Extends OLAP Administration Tools for Rapid Deployment**

March 17, 1998

Byline: Business Editors



...metadata development and life cycle management. New features help administrators connect DecisionSuite Server? to the data warehouse within a short period of time. Data Workbench **automatically creates**, populates and validates DecisionSuite's metadata **tables**. Administrators are alerted to violations in the metadata model and offered suggestions for problem resolution. Design time is further reduced through tight integration with Logic Work's **ERwin 3.5** new dimensional modeling tool. **ERwin 3.5** ships with out-of-the-box templates to create and maintain a range of database models directly supported by DecisionSuite? including star, snowflake...

16/3,K/8 (Item 2 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0687817 BW1274

**LOGIC WORKS: Logic Works launches Net Results Web strategic partner program**

April 03, 1997

Byline: Business/Technology Editors

...Logic Works Web strategy from competing solutions is its emphasis on building a strong database foundation for new data-driven Internet/intranet applications. Logic Works **ERwin** is an award winning visual **database** development environment that **automatically generates** a complete **database** server on all the leading DBMS platforms.

"Interactive applications are rapidly replacing the first generation Web 'billboard' sites and businesses need fast, reliable tools to design and maintain these databases," said John Bantleman, Logic Works executive vice president of marketing. "**ERwin** is the leading tool for designing high performance relational databases. In addition to helping you visually design a new database, **ERwin** is essential for re...

16/3,K/9 (Item 3 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0687816 BW1273

**LOGIC WORKS NETSCHEME: Logic Works and NetScheme Solutions join forces to provide instant Web database access**

April 03, 1997

Byline: Business/Technology Editors

...need a fast solution for creating the databases that drive our Web pages," said Mark Winter, president of Mark Winter Associates in Toronto, Canada. "The **ERwin /DataSite** bundle automates the intranet development process by **creating** the underlying **database tables** and **dynamically generating** the forms, queries, and HTML results pages. Using **ERwin** we can modify the database structure whenever our business requirements change and then quickly regenerate the DataSite application to automatically provide access to new tables...

16/3,K/10 (Item 4 from file: 810)  
DIALOG(R)File 810:Business Wire  
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0627847 BW1107

**LOGIC WORKS: Logic Works and SELECT Software Tools Announce Strategic Partnership and Bidirectional Interface for Object-Relational Model-Based Development**

September 30, 1996

Byline: Business Editors/Computers & Electronics Writers

...modeling solution. SELECT Enterprise generates the interface and business layers to a variety of application development environments (Visual Basic(R), Forte, PowerBuilder(R), C++ etc.).

ERwin generates the data layer using RDBMS requirements that are passed through the bidirectional link. ERwin automatically generates tables, indexes, referential integrity and thousands of lines of stored procedure and trigger code for all major RDBMSs.

"The partnership will provide tremendous benefit to SELECT and ERwin users as both SELECT and Logic Works are working towards a common meta model. This alignment in our philosophy and product architecture will allow our...

16/3,K/11 (Item 5 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0569950 BW0034

**LOGIC WORKS: Logic Works introduces AOS -- The first model management system for workgroups**

March 28, 1996

Byline: Business Editors/Computers & Electronics Writers

...existing and future releases of Logic Works tools. The initial release supports Logic Works' acclaimed ERwin/ERX data modeling tool. Future AOS-enabled versions of ERwin will include:

- o ERwin /ERX for AOS includes ERwin 's core set of database design and generation features. Server FRE (Forward- and Reverse-Engineering) generates a database directly from the data model, or takes an existing database and reverse-engineers it into a model. ERwin connects to all leading databases and automatically generates the thousands of lines of database -specific triggers and stored procedures that ensure data integrity.
- o ERwin /OPEN for AOS incorporates the same core functions as ERwin /ERX, but contains specifically-tailored links to client/server application development tools including PowerBuilder and Microsoft Visual Basic. Using these links, client-side extended attributes...

16/3,K/12 (Item 6 from file: 810)  
DIALOG(R)File 810:Business Wire  
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0483304 BW1221

**LOGIC WORKS: Logic Works announces ERwin/OPEN**

May 02, 1995

Byline: Business Editors/Computers & Electronics Writers

...Curt Monash, Ph.D., president of Monash Information Services.  
"Integrated database design -- and especially stored procedure

generation -- is important no matter which tool you use. **ERwin /OPEN** makes it easier to achieve these objectives."

**ERwin** is a powerful application modeling tool that allows developers to create a graphical Entity-Relationship diagram of their data.

Through a direct Server FRE (Server Forward and Reverse-Engineering) connection to the **database** catalog, **ERwin** **automatically generates** the physical **database** schema code as well as stored procedures and triggers that enforce referential integrity.

**ERwin** can use the same connection to reverse-engineer an existing database into a logical data model.

**ERwin /OPEN's** dictionary architecture speeds client/server development.

Taking database design a step further, **ERwin /OPEN** will let developers define PowerBuilder, SQL Windows or Microsoft Visual Basic extended attributes (such as class style, client-side validation, initial value, height, width...

16/3,K/13 (Item 7 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0475280 BW1029

**LOGIC WORKS: Logic Works introduces ERwin for SQLWindows**

April 04, 1995

Byline: Business Editors/Computers & Electronics Writers

...tightly integrates with SQLWindows. Now SQLWindows developers can base their client/server applications on a quality database design, using familiar QuickObjects architecture."

At its core, **ERwin** is a powerful, easy-to-use database design tool that allows developers to create a graphical Entity-Relationship (E-R) diagram of their data. Through a direct connection to the DBMS called Server FRE (Server Forward and Reverse Engineering), **ERwin** **automatically generates** a physical **database** structure, including **tables**

and the stored procedures and triggers that enforce referential integrity.

**ERwin** can use the same connection to reverse-engineer an existing database into a logical data model. In addition, all **ERwin** products link to Logic Works' RPTwin, a graphical, banded report writer for easy report generation.

**ERwin** for SQLWindows takes the database design significantly further by allowing developers to specify both SQLWindows extended attributes (class style, client-side validation, initial value, justification...

16/3,K/14 (Item 8 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0432364 BW1007

**LOGIC WORKS: Logic Works Announces ERwin for Oracle-CASE; Provides Users with Powerful Data Modeling that Complements the Oracle-CASE Environment**

September 27, 1994

Byline: Business Editors

...to-use,  
Windows-based interface. Each ER diagram displays all entities, attributes, relationships, primary and foreign keys, and index

indicators. As you build data models, **ERwin** helps you to normalize tables, capture business rules and establish referential integrity, thereby building a solid foundation for client/server application development.

**ERwin** 's Server FRE (forward- and reverse-engineering) directly links to Oracle databases, enabling database administrators to drive system tables directly from the logical model. **ERwin** automatically generates tables, indexes, referential integrity (primary and foreign key), triggers (including Oracle7 triggers), defaults and domain/column constraints. It also supports reverse-engineering and migration from desktop and SQL databases such as Oracle 6, DB2 and Rdb to the Oracle7 environment.

**ERwin** for Oracle-CASE gives database administrators the flexibility to import Oracle-CASE diagrams directly from the Oracle-CASE Dictionary. Diagrams can be modified in **ERwin**...

16/3,K/15 (Item 1 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.

01049343 CMP ACCESSION NUMBER: Cw19950417S0028  
**OBJECT-APP TOOL NAME CHANGE** (in brief)  
COMMUNICATIONSWEEK, 1995, n 553, PG16  
PUBLICATION DATE: 950417  
JOURNAL CODE: Cw LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: News  
WORD COUNT: 242

... license. (617-562-0900.)  
@ hd: LOGIC WORKS, GUPTA TEAM UP  
Logic Works Inc., Princeton, N.J., is shipping a version of its database modeling tool, **ERwin** /ERX, optimized for Gupta Corp.'s SQLWindows. **ERwin** automatically generates a database design through a connection to the database, called Server Forward and Reverse Engineering. The companies said they will bundle the product with SQLWindows 5.0 for \$5,295. **ERwin** for SQLWindows alone costs \$3,495. (609-252-1177.)

16/3,K/16 (Item 2 from file: 647)  
DIALOG(R)File 647:CMP Computer Fulltext  
(c) 2002 CMP Media, LLC. All rts. reserv.  
01036949 CMP ACCESSION NUMBER: CWK19941212S0032  
**ERwin Database Modeler Enhanced**  
JOHN COX  
COMMUNICATIONSWEEK, 1994, n 535, PG16  
PUBLICATION DATE: 941212  
JOURNAL CODE: CWK LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Network Applications-Databases & Tools  
WORD COUNT: 289

The changes are part of the company's effort to expand **ERwin** 's modeling capabilities and tie them to a range of client/server development tools. These tools can more effectively work with reusable logical models from which code can be automatically generated for different brands of relational database management systems.

Microsoft Corp. Windows PC users graphically build what are known as Entity-Relationship (ER) diagrams that reflect a company's business rules and policies, said Frank Cicio, vice president of sales and marketing for Logic Works, based here. **ERwin** then generates the Structured Query Language code or the Data Definition Language code to build the application database on RDBMSs.

More Databases Targeted  
"ERwin is...

16/3,K/17 (Item 1 from file: 610)  
DIALOG(R)File 610:Business Wire  
(c) 2002 Business Wire. All rts. reserv.

00076599 19990719200B0426 (USE FORMAT 7 FOR FULLTEXT)  
New Data Warehouse Tools From ICL To Reduce Development and Infrastructure  
Costs by Up to 60 Percent; Retailer Just For Feet Will Use Tools in  
Managing Two-terabyte Data Warehouse  
Business Wire  
Monday, July 19, 1999 12:16 EDT  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 1,128

...Track Development Toolkit will run on Sun Solaris Release  
2.6 or Microsoft(R) Windows NT(R) 4.0. The model, from which code is  
automatically generated, is created using Platinum's ERwin  
Database  
Design Tool.

#### Disk Administration Toolkit

The Disk Administration Toolkit is delivered in two parts -- as a  
generic off-the shelf set of advanced monitoring and...

Set	Items	Description
S1	256	(AUTOMATIC? OR DYNAMIC? OR TRANSPARENT? OR ON(1W)FLY OR BEHIND(2W)SCENE? ? OR REAL()TIME) (3N) (CREAT? OR GENERAT? OR BUILD? OR CONSTRUCT? OR PRODUC? OR SET????()UP OR ESTABLISH?) (3N- ) (DATABASE? ? OR DATA()BASE? ? OR TABLE? ?)
S2	2373	(RELATIONSHIP? ? OR RELATEDNESS OR RELAT???? OR ASSOCIAT? - OR LINK??? OR OPERATION? ? OR PROCEDURE? ? OR FUNCTION? ? OR - RULE? ? OR INTEGRITY OR CORRECT?) (5N) (ROW? ? OR COLUMN? ? OR - DATABASE? ? OR DATA()BASE? ? OR TABLE? ?)
S3	1860	DEFINITION? ? OR SCHEMA? ?
S4	1168	DATAMART? ? OR DATAWAREHOUSE? ? OR DATA() (MART? ? OR WAREHOUSE? ?)
S5	54	S1 AND S2
S6	5	S5 AND S3
S7	9	S1 AND S4
S8	0	S7 AND S3
S9	11	S1 AND S3
S10	1	S1 AND ERWIN
S11	97	E()PIPHANY
S12	0	S1 AND S11
S13	26	S1 AND (INTEGRITY OR RULE? ? OR CORRECT????)
S14	1	S13 AND S3
S15	12	S9:S10

15/5/1

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
(c)2002 Info.Sources Inc. All rts. reserv.

01751669 DOCUMENT TYPE: Product

**PRODUCT NAME: SQL Navigator 3.1 (751669)**

Quest Software Inc (511285)  
8001 Irvine Center Dr  
Irvine, CA 92618 United States  
TELEPHONE: (949) 754-8000

RECORD TYPE: Directory

CONTACT: Sales Department

The SQL Navigator 3.1 family is a complete development environment for Oracle PL/SQL and SQL server-side development and management. It provides an integrated environment for development and testing of stored procedures, **schemas**, SQL scripts, and more, all from an easy-to-use graphical user interface. This solution suite was conceived, designed, and developed by Oracle developers and DBAs who have hands-on experience with the problems faced by Oracle developers. SQL Navigator has set new standards in the complex process of developing, testing, and managing applications that interface with Oracle's databases. SQL Navigator's user-friendly design is helping Oracle development and administration teams achieve productivity gains worldwide. The SQL Navigator family also includes optional modules for PL/SQL debugging, SQL tuning with Xpert advice, integrated version control with InterSolv PCVS and Microsoft SourceSafe, integrated impact analysis and Oracle Web development. Main features include: drag-and-drop coding; visual object editors; quick find/describe feature; check-in/check-out source code; **automatic** compilation of all dependent objects; query **builder**; flexible **database** object reporting; and virtually unlimited levels of undo and redo.

DESCRIPTORS: Program Development; Database Management; Software Version Control; Software Testing; Report Generators; Text Editors

HARDWARE: IBM PC & Compatibles  
OPERATING SYSTEM: Windows; Windows NT/2000; Oracle  
PROGRAM LANGUAGES: Oracle; SQL  
TYPE OF PRODUCT: Micro; Workstation  
POTENTIAL USERS: Cross Industry  
PRICE: Available upon request

DOCUMENTATION AVAILABLE: User manuals  
TRAINING AVAILABLE: Technical support; Internet support  
OTHER REQUIREMENTS: 16MB RAM; Oracle 7.1-8.0; Oracle SQL\*Net or Net 8 - 32 bit only required  
REVISION DATE: 990929

15/5/2

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
(c)2002 Info.Sources Inc. All rts. reserv.

01724467 DOCUMENT TYPE: Product

**PRODUCT NAME: PrintAbility by RTIS (724467)**

Reed Technology & Information Services Inc (061107)  
1 Progress Dr  
Horsham, PA 19044-8014 United States  
TELEPHONE: (215) 682-5200

RECORD TYPE: Directory

CONTACT: Sales Department

PrintAbility by RTIS dramatically reduces catalog creation efforts by exporting selected **product** data from a single **database** of **product** information into QuarkXPress for **dynamic** page make-up. It operates from a user-friendly, browser-based interface, eliminating the need for client software, yet functioning on the PC and Mac platforms in any Internet/intranet environment. The main components of PrintAbility by RTIS include an authoring tool and a publishing tool. Through the authoring tool, users can select product information and define section and sub-section formatting including titles, headers and footers. Inclusion of product comparison tables highlighting product features is simplified with PrintAbility by RTIS' unique table **definition** facility. After users have specified the catalog content and format, they select a catalog section for extraction with the publishing tool. The publishing tool extracts the specified product information from the central database to produce a tagged file ready for import into QuarkXPress. Once in QuarkXPress, the tagged file populates the catalog pages with the content and format specified with the authoring tool. In addition to expediting catalog creation, PrintAbility by RTIS makes versioning easy and cost-effective. If the users create seasonal or market-targeted catalogs, the catalog version control module insures that they can save the parameters for future re-use. Each time the catalog is created, the most current information is extracted from the product database regardless of the date the parameters were specified. A library of catalogs can quickly be established, eliminating the need to create new catalog parameters for each seasonal offering, targeted audience or new product emphasis. PrintAbility by RTIS provides easy browser-based authoring and customizable templates that provide a flexible, fast-response production process for the printed version of a catalog.

DESCRIPTORS: Electronic Publishing; Database Publishing; Page Composition; CD-ROMs; Catalogs; Internet Utilities; Internet Marketing

HARDWARE: Apple Macintosh; IBM PC & Compatibles

OPERATING SYSTEM: MacOS; Windows; Windows NT/2000; QuarkXPress

PROGRAM LANGUAGES: Not Available

TYPE OF PRODUCT: Micro

POTENTIAL USERS: Cross Industry

PRICE: Available upon request

TRAINING AVAILABLE: Training; technical support

SERVICES AVAILABLE: Consulting; conversion

REVISION DATE: 990827

15/5/3

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.

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01085928

DOCUMENT TYPE: Product

PRODUCT NAME: AllFusion ERwin Data Modeler (085928)

Computer Associates International Inc (081957)

1 Computer Associates Plaza

Islandia, NY 11749 United States

TELEPHONE: (631) 342-5224

RECORD TYPE: Directory

CONTACT: Sales Department

With many 'DBMS' Readers' Choice Awards and over 50,000 users, AllFusion **ERwin** Data Modeler helps users increase their productivity in the design, generation, and maintenance of high- quality, high-performance databases, data warehouses, and enterprise data resource models. From a logical model of an organization's information requirements and business rules that define the database to a physical model optimized for the specific characteristics of a target database, AllFusion **ERwin** Data Modeler helps



developers visually determine the proper structure, key elements, and optimized design of a database. AllFusion **ERwin** Data Modeler is more than just a design tool; it is a powerful **database** development tool that **automatically generates tables** and thousands of lines of stored procedure and trigger code for virtually all leading databases. Its advanced 'Complete-Compare' technology allows iterative development that ensures continuous synchronization between the model and the database. By integrating with leading development environments, AllFusion **ERwin** Data Modeler can speed the creation of data-centric applications. AllFusion **ERwin** Data Modeler scales across the enterprise through seamless integration with AllFusion Model Manager. This model manager enables database designers, application developers, and users to share AllFusion **ERwin** model information. By dividing, sharing, and reusing designs across different development efforts, modeling productivity can be maximized and corporate standards can be established.

DESCRIPTORS: Logical Data Modeling; Program Development; Database Management

HARDWARE: IBM PC & Compatibles

OPERATING SYSTEM: Windows; Windows NT/2000

PROGRAM LANGUAGES: Not Available

TYPE OF PRODUCT: Micro

POTENTIAL USERS: Cross Industry, Developers, Systems Analysts

PRICE: Available upon request

REVISION DATE: 020521

15/5/4

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.

(c)2002 Info.Sources Inc. All rts. reserv.

00118627

DOCUMENT TYPE: Review

PRODUCT NAMES: SalesLogix 3.1 (007056)

TITLE: SalesLogix offers scalable CRM

AUTHOR: Apicella, Mario

SOURCE: InfoWorld, v21 n33 p59(2) Aug 16, 1999

ISSN: 0199-6649

HOME PAGE: <http://www.infoworld.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: B

SalesLogix's SalesLogix 3.1, a customer relationship management (CRM) package, gets very good marks overall, especially for scalable, multitier, multilocation architecture; robust customization tools; and vendor-provided integration with Great Plains financial applications. However, marketing campaigns are not supported. SalesLogix 3.1's complete suite of Windows-based products manage customer relationships for midrange companies in a client/server environment or over the Internet. SalesLogix has outstanding module-based design, customization tools, and scalability. SalesLogix's built-in synchronization **schema** makes its target market the organization with multiple, independently managed branches. Lead generation abilities allow users to choose only components needed, so that initial out of pocket and implementation costs are reduced. Since holding customer retention is less expensive than replacing customers with new ones, companies can profit from better serving current customers, and SalesLogix 3.1 helps users do so. Users can **create** islands of distributed **databases** that synchronize **automatically** with a central company repository for more effective allocation of information where it used the most often. With specialized suites, users can also easily personalize SalesLogix to manage customers' interactions on the Internet and a local network. They can also create an interface or use provided integration with financial packages from Great Plains.

COMPANY NAME: Interact Commerce Corp (523836)  
SPECIAL FEATURE: Charts Screen Layouts  
DESCRIPTORS: CRM; IBM PC & Compatibles; Intranets; Marketing Information;  
Sales Analysis; Sales Force Automation; Windows  
REVISION DATE: 20010930

15/5/5

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2002 Info.Sources Inc. All rts. reserv.

00111800 DOCUMENT TYPE: Review

PRODUCT NAMES: Microsoft Visual Studio Enterprise 6.0 (716758)

TITLE: Visual Studio 6.0 Sings NT's Siren Song  
AUTHOR: Moran, Joseph Coffee, Peter  
SOURCE: WindowsPro Magazine, v1 n2 p41(5) Oct 1998  
ISSN: 1065-9641

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

Microsoft's Microsoft Visual Studio Enterprise Edition 6.0 for Windows NT is a comprehensive application development suite that appeals to development teams with varying skills and needs. Included with the package are Visual Basic 6.0, Visual C++ 6.0, Visual J++ 6.0, Visual InterDev 6.0, and FoxPro 6.0 software, each of which has distinctive strengths that work well under the NT umbrella for large-scale IT work. Visual Basic is the most productive Windows development application on the market, sporting an intuitive interface, pop-up information, and a long list of developer's tools. Visual C++ handles distributed applications with ease and allows rapid comparisons of disparate systems architectures. Visual J++ offers useful Java programming innovations, though users developing for anything other than the Windows/Internet Explorer combination may want to look elsewhere. Visual InterDev now includes design-time ActiveX controls and a visual linkage editor. FoxPro offers **automatic** skeleton application **construction** and other automated tools for **database definitions**.

PRICE: \$1619

COMPANY NAME: Microsoft Corp (112127)  
SPECIAL FEATURE: Screen Layouts  
DESCRIPTORS: C++; IBM PC & Compatibles; Java; Program Development; Visual Basic; Visual FoxPro; Windows NT/2000  
REVISION DATE: 20000830

15/5/6

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2002 Info.Sources Inc. All rts. reserv.

00111539 DOCUMENT TYPE: Review

PRODUCT NAMES: Drumbeat 2.0 (674541)

TITLE: Database-driven Web development  
AUTHOR: Powell, Thomas  
SOURCE: Network World, v15 n37 p55(2) Sep 14, 1998  
ISSN: 0887-7661  
HOMEPAGE: <http://www.nwfusion.com>

RECORD TYPE: Review  
REVIEW TYPE: Review  
GRADE: A

Elemental Software's Drumbeat 2.0, a database-driven World Wide Web site development **product**, has wizards that **automatically create** Active Server Page code for **database**-driven Web pages. Drumbeat 2.0 also provides powerful template and page generation features, and SmartPages for browser-enabled features. However, testers had some problems with site importing, and the interface needs some refinement. The complexity of Drumbeat 2.0's function set falls between those of Microsoft's FrontPage and Visual InterDev. Users can use the mouse to complete most tasks required to create database-driven pages. A template-based metaphor is one of Drumbeat's greatest advantages. Content is stored in a content table or database, and stays separate from the page structure. A user can easily create a common subpage template and use it for many pages. Another nice feature allows users to create groups of pages using the PageSet concept. After **definition** of a common template, a group of pages can be created from a static content table or database query, in order to achieve a uniform look. The DataForm Wizard allows users to graphically and manually **generate** SQL statements for **database** queries. Multiple predefined **Dynamic** Hypertext Markup Language (HTML) features are provided, along with other page enhancements. Drumbeat's SmartPages allow users to build a site with pages that vary based on the browser used.

PRICE: \$699

COMPANY NAME: Macromedia Inc (423106)

SPECIAL FEATURE: Screen Layouts Charts

DESCRIPTORS: Authoring Systems; Database Management; Database Publishing;  
Electronic Publishing; HTML; Internet Utilities; Program Development;  
Web Site Design

REVISION DATE: 20000430

15/5/7

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.

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00107174 DOCUMENT TYPE: Review

PRODUCT NAMES: Cyberprise DBApp Developer 1.1 (683159)

TITLE: Web-to-Database in Cyberprise

AUTHOR: Aubrey, David

SOURCE: InternetWeek, v708 p36(1) Mar 30, 1998

ISSN: 0746-8121

HOME PAGE: <http://www.internetwk.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: A

Wall Data's Cyberprise DBApp Developer 1.1, a suite of applications that assists developers in creating database-driven World Wide Web applications without a significant programming requirement, allows developers to model **databases** and Web pages concurrently. Developers can **automatically generate** a **database schema** and a Web-page layout from one model that they define. When the developer creates a model, DBApp Developer can create the database structure, Active Server Pages, Hypertext Markup Language (HTML) forms, and SQL queries needed to publish data on an intranet or the Internet. DPApp Developer ships with a group of standard starter kits that assist developers in getting started on a project. Templates for invoice, billing, recruiting, and sales projects are provided, along with an all-purpose kit that is useful for importing a model of an installed database. The Starter Kit allows a developer to model an ODBC-compatible database. The modeled, multiple database can be combined, and the database **schema** can be changed and database **schema** normalized. The new model can then be used to generate a new database or to migrate to either Microsoft SQL Server or Microsoft Access. Importing an SQL Server database is easy with a few clicks of the mouse.

PRICE: \$2500

COMPANY NAME: NetManage Inc (525375)

SPECIAL FEATURE: Screen Layouts

DESCRIPTORS: Authoring Systems; Database Management; Database Publishing;  
Electronic Publishing; HTML; Internet Utilities; Logical Data Modeling;  
Program Development; SQL; Web Site Design

REVISION DATE: 20020227

15/5/8

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.

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00101278

DOCUMENT TYPE: Review

PRODUCT NAMES: NetObjects Fusion 1.0 Macintosh (632601)

TITLE: NetObjects Fusion

AUTHOR: Snell, Jason

SOURCE: MacUser, v13 n5 p40(1) May 1997

ISSN: 0884-0997

HOME PAGE: <http://www.zdnet.com/macuser>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: B

NetObjects' NetObjects Fusion 1.0, a World Wide Web site layout program for the Macintosh, gets good marks overall, but has an awkward interface that detracts from the considerable power of its toolset. With NetObjects Fusion, users can design Web pages simply by arranging objects on a page grid as in Adobe PageMaker or QuarkXPress. Users also can create, manage, and update complete Web sites. However, the product does not support Mac-standardized interface conventions. Instead of requiring users to embed text and graphics in tables, as Hypertext Markup Language (HTML) requires, NetObjects Fusion determines where text and graphics have been placed on a page-layout-type grid and **automatically generates table definitions**, a function that saves users both time and effort. Unfortunately, NetObjects Fusion is all too obviously a poor porting of a Windows product to the Macintosh, and it does not have Mac-standard editing functions. For example, to bold or italicize selected text, or to adjust text alignment, users have to click icons in a floating palette. Fusion was also slow for some operations, even on a fast Macintosh. Fusion can create and maintain pages and Web sites. The site view allows users to coordinate the site's pages using a tree for an outline, and pages can be dragged and dropped anywhere in the hierarchy. 50 site styles with stylish, thematic banner graphics and navigational buttons are provided.

PRICE: \$695

COMPANY NAME: Website Pros Inc (622524)

SPECIAL FEATURE: Screen Layouts

DESCRIPTORS: Apple Macintosh; Authoring Systems; Electronic Publishing;  
Internet Marketing; Internet Utilities; MacOS; Network Administration;  
QuarkXPress; Web Site Design

REVISION DATE: 20020630

15/5/9

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.

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00100339

DOCUMENT TYPE: Review

PRODUCT NAMES: Designer/2000 1.3 (556343)

TITLE: Create Perfect Applications by Design

AUTHOR: Acker, Bob  
SOURCE: Data Based Advisor, v15 n2 p30(6) Feb 1997  
ISSN: 0740-5200  
HOMEPAGE: <http://www.advisor.com>

RECORD TYPE: Review  
REVIEW TYPE: Review  
GRADE: A

Oracle's Designer/2000 1.3 assists users in constructing applications that benefit from strong design and modeling principles. Topics discussed include the Process Modeler; Entity Relationship Diagrammer (ERD); Function Hierarchy Diagrammer (FHD); Matrix Diagrammer; Database Design Wizard and Design Diagrammer; Server Generator; Application Design Wizard; Module Logic Navigator; Module Structure Diagrammer; Module Data Diagrammer; Visual Basic Generator; C++ Object Layer Generator; avoiding pitfalls; and the value of Oracle's Designer/2000. Oracle's Designer/2000 is a useful computer-assisted software engineering (CASE) addition to the Developer/2000 collection of graphical development tools. It provides project planning tools that allow users to graphically document business requirements before programming begins. This lessens the need for rewriting code during development. Designer/2000 has especially powerful documentation tools, and it is extensively self-documenting. Database design and generation tools are robust and allow users to visually design and specify **database constructs**. The **Server Generator creates the Dynamic Link Library**, including Oracle native storage **definitions**. When form triggers can be programmed from inside the product without template forms, and when a server side debugger is available in Designer/2000 2.0, the application generation side will be more powerful.

PRICE: \$3995

COMPANY NAME: Oracle Corp (010740)  
SPECIAL FEATURE: Charts Program Listings  
DESCRIPTORS: Database Management; IDEs; Logical Data Modeling; Oracle;  
Program Development  
REVISION DATE: 19990830

15/5/10  
DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00086613 DOCUMENT TYPE: Review

PRODUCT NAMES: IQ/Objects 5.1 (587371)

TITLE: IQ Offers Objects For End-Users  
AUTHOR: Tyo, Jay  
SOURCE: Information Week, v556 p101(1) Dec 4, 1995  
ISSN: 8750-6874  
HOMEPAGE: <http://www.informationweek.com>

RECORD TYPE: Review  
REVIEW TYPE: Review  
GRADE: B

IQ Software's IQ/Objects 5.1, a new query and report writing tool, eases reporting tasks but requires some experience to use. It works with the IQ Smart Server report server and is available in Administrator, Enterprise, and Personal editions. In a managed query environment, an administrator designs a knowledge base (with access to only one data source) between a target database and end-users. A provided knowledge base editor reads **schema definition** of a target **database** and **automatically generates** objects for **database** fields and **table** join relationships. These are adjusted by the administrator. During tests, IQ/Objects performed well, and a large selection of join criteria keeps the number of relationships under control. A significant advantage of IQ/Objects is its ability to allow

objects to be anything from full cross-tab reports to user prompts.

PRICE: \$250

COMPANY NAME: Computer Associates International Inc (081957)  
SPECIAL FEATURE: Screen Layouts  
DESCRIPTORS: Database Utilities; Information Retrieval; Report Generators  
REVISION DATE: 20011130

15/5/11

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00061726 DOCUMENT TYPE: Review

PRODUCT NAMES: SQLWindows 4.0 (701815)

TITLE: SQLWindows 4.0  
AUTHOR: Madden, Wayne  
SOURCE: News 3X/400, p141(6) Feb 1994  
ISSN: 1040-6093

RECORD TYPE: Review  
REVIEW TYPE: Review  
GRADE: A

Gupta's SQLWindows 4.0 is a suite of client/server development tools, which can be used to **create** Windows applications to access **databases** on several platforms. SQLWindows offers generic, **transparent** access to SQL **databases**, although the user need not know about SQL to create the applications. Experienced SQL coders do have the option of coding directly in SQL. The PC-based application development tool is based on a 4GL called SQLWindows Application Language, which is used in the package to write fully functional SQLWindows applications. The package comes with a graphical modeling environment for building a GUI, and built-in functions for connecting and accessing SQL database servers. As graphical objects are added to a form, SQLWindows automatically incorporates the object **definitions** into the code outline. SQLWindows is an excellent graphical modeling tool, and can quickly build a shell application and present the code in a manageable outline.

PRICE: \$2295

COMPANY NAME: Centura Software Corp (427161)  
SPECIAL FEATURE: Screen Layouts  
DESCRIPTORS: 4GL (Fourth Generation Languages); Client/server; Database Management; IBM PC & Compatibles; Integration Software; Network Software; Program Development; SQL; Windows  
REVISION DATE: 20000330

15/5/12

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
(c)2002 Info.Sources Inc. All rts. reserv.

00061445 DOCUMENT TYPE: Review

PRODUCT NAMES: InfoModeler 1.0 (493911)

TITLE: Asymetrix Offers Database Shortcut that Works  
AUTHOR: Gryphon, Robert  
SOURCE: InfoWorld, v16 n9 p93(1) Feb 28, 1994  
ISSN: 0199-6649  
HOMEPAGE: <http://www.infoworld.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Database designers often use the entity-relationship (ER) diagram for modeling a database before creating it. Although the ER diagram can be valuable it is tedious to build. The process can be made easier with Asymetrix's InfoModeler 1.0. InfoModeler is an easy to use design aid, that accepts English language descriptions of rules. After filling in details, the program **automatically generates database definition** scripts. Users need not worry about mistakes and principles of normalization, and a design that is relationally correct is assured. InfoModeler generates database **definition** scripts that are fed into the database product, along with comments. It can create scripts for FoxPro, Access, Paradox, SQL Server, and Oracle7, with other support coming later in the year. InfoModeler cannot print the ER diagram. The Windows-based program is Multiple Document Interface compliant, and makes good use of graphical elements such as toolbars and objects.

PRICE: \$795

COMPANY NAME: Microsoft Corp (112127)

SPECIAL FEATURE: Screen Layouts

DESCRIPTORS: Code Generators; Database Management; Logical Data Modeling;  
Oracle; Program Development; Visual FoxPro

REVISION DATE: 20020730

File 348:EUROPEAN PATENTS 1978-2002/Nov W03

(c) 2002 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20021121,UT=20021114

(c) 2002 WIPO/Univentio

Set	Items	Description
S1	2150	(AUTOMATIC? OR DYNAMIC? OR TRANSPARENT? OR ON(1W)FLY OR BE-HIND(2W)SCENE? ? OR REAL()TIME) (3N) (CREAT? OR GENERAT? OR BUILD? OR CONSTRUCT? OR PRODUC? OR SET????()UP OR ESTABLISH?) (3N-)(DATABASE? ? OR DATA()BASE? ? OR TABLE? ?)
S2	112052	(RELATIONSHIP? ? OR RELATEDNESS OR RELAT???? OR ASSOCIAT? - OR LINK??? OR OPERATION? ? OR PROCEDURE? ? OR FUNCTION? ? OR - RULE? ? OR INTEGRITY OR CORRECT?) (5N) (ROW? ? OR COLUMN? ? OR - DATABASE? ? OR DATA()BASE? ? OR TABLE? ?)
S3	153027	DEFINITION? ? OR SCHEMA? ?
S4	743	DATAMART? ? OR DATAWAREHOUSE? ? OR DATA() (MART? ? OR WAREH- OUSE? ?)
S5	116	S1(S)S3 AND IC=G06F
S6	2	S5(S)S4
S7	15	S1(S)S4 AND IC=G06F
S8	374626	INTEGRITY OR RULE? ? OR CORRECT????
S9	229699	HUMAN? ? OR PROGRAMMER? ? OR DEVELOPER? ?
S10	35	S5(S)S8:S9
S11	27	S10 NOT S7
S12	49	S1(30N)DEFINITION? ? AND IC=G06F
S13	38	S12 NOT (S7 OR S11)
S14	76	S1(S)S2(S)S3 AND IC=G06F
S15	35	S14 NOT (S7 OR S11 OR S13)



11/5,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
(c) 2002 European Patent Office. All rts. reserv.

00966669

Database query system and method  
Datenbanksuchsystem und -verfahren  
Systeme et methode d'interrogation de bases de donnees

PATENT ASSIGNEE:

INTERNATIONAL BUSINESS MACHINES CORPORATION, (200123), , Armonk, NY  
10504, (US), (Applicant designated States: all)

INVENTOR:

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(US)

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LEGAL REPRESENTATIVE:

Davies, Simon Robert (75452), IBM, United Kingdom Limited, Intellectual  
Property Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 877328 A2 981111 (Basic)

EP 877328 A3 000119

APPLICATION (CC, No, Date): EP 98303616 980508;

PRIORITY (CC, No, Date): US 853294 970509; US 853976 970509

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT EP 877328 A2

An object language application (e.g., c++, JAVA, etc.,) is enabled to issue a query over a view and to receive back, as query results, handles to application type objects which can be further manipulated by the application. A view is defined herein as a collection of a view type, and a view type is defined as a class or type. In a preferred embodiment, a tool is used by a programmer writing an application to create object language class definitions that are based upon the view type of the view referenced by the query. Upon receipt of the query referencing a view type, a query engine generates a query plan that builds mock (i.e., proxy) application type objects in memory based upon the view types. The application objects have a form that is consistent with the class definition for a type of object returned as a result. The application can run methods on the application type objects or point to other application type objects from the handles, to the application objects, that are returned to the application; and these manipulations will be understood by the query engine. In a preferred embodiment, query rewrite optimizations are applied to the queries over views requiring object building in order to optimize the evaluation of the query and the building of view objects as query results. For example, when a query over a view is analyzed and it is determined that the query is not requesting a handle, and is not referencing a method, but only asks for values, no objects are built. Also, if a query traverses a reference type attribute, but the query can be transformed into a join or outer join operation between relational tables, then no object building is required. In these above described situations, the rewritten query can be pushed down to the database management system of the data source for resolution. If the query does request a handle or references a method, then some object building is required. However, query rewrite techniques can still be applied so that parts of the query are pushed down to the DBMS to minimize the number of objects that are built.

ABSTRACT WORD COUNT: 360

NOTE:

-Figure number on first page: 9B

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 000830 A2 Date of request for examination: 20000704

Search Report: 20000119 A3 Separate publication of the search report

Application: 981111 A2 Published application (Alwith Search Report  
;A2without Search Report)

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9846	1410
SPEC A	(English)	9846	17780
Total word count - document A			19190
Total word count - document B			0
Total word count - documents A + B			19190

...SPECIFICATION types in memory that the application is manipulating in its application space via C++, Java, IDL, or other object language.

To get the generated C++ **definitions** shown in Fig. 4, the following scenario typically takes place. Given a relational database, a C++ **programmer** uses a GUI based tool to generate view type **definitions** (Fig. 3). As the **programmer** writes the application, the **programmer** asks for the C++ classes (Fig. 4) that implement the view types (Fig. 3). The tool automatically generates the classes which the **programmer** can make use of. The tool examines the view **definition** and uses the view **definition** to generate the class **definition**. In a preferred tool embodiment, the tool has a graphical user interface (GUI) that allows the user/ **programmer** to graphically represent relationships among data types in the relational **database**. The tool then **automatically generates** the view type **definitions** and the object language class **definitions** from the user's graphical representation.

The preferred embodiment of this invention enables a query system, which knows nothing about the specific object language which...

11/5,K/2 (Item 2 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
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00630938

Information management process for cable network with automatic generation of graphic applications.

Verfahren zur Informationsbehandlung fur Kabelnetz mit automatischer Erzeugung von grafischen Anwendungen.

Procede de gestion d'informations pour reseau de cable, avec generation automatique de representation graphique.

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Monteil, Gerard, 50, Allee des Anemones, F-06250 Mougings, (FR)

LEGAL REPRESENTATIVE:

de Pena, Alain (15151), Compagnie IBM France Departement de Propriete Intellectuelle, F-06610 La Gaude, (FR)

PATENT (CC, No, Kind, Date): EP 614151 A1 940907 (Basic)

APPLICATION (CC, No, Date): EP 93480017 930302;

PRIORITY (CC, No, Date): EP 93480017 930302

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-015/56; H04L-012/24;

ABSTRACT EP 614151 A1

The present invention is an information management method implemented in a data processing system and designed specifically for telecommunication or power networks. The heart of the system is a relational Database (151) structured according to a logical representation of the network. This logical representation or Data Model (152) determines all the rules which govern the different types of components and their Relationships in the network. In this unique and consistent Database (151) is stored all the information about the location and content of the outside plant, the background geographic maps, detailed drawings, alpha-numeric descriptive data ..etc. This Database structure allows the user to design and create, by means of an appropriate interface (154), his own telecommunications business applications (153). The user can scan existing maps or drawings by means of a scanner (155) or manually digitize data with the help of a graphic mouse or pen (156). It can manipulate data in a number of way and represent the network in different contexts, for example in the form of a network map, schematic view, report or work order on a graphic display (157), a printer (158) or

a plotter (159). (see image in original document)  
ABSTRACT WORD COUNT: 197

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 940907 A1 Published application (A1with Search Report  
;A2without Search Report)  
Examination: 950315 A1 Date of filing of request for examination:  
950117  
Withdrawal: 970326 A1 Date on which the European patent application  
was deemed to be withdrawn: 961001

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	1093
SPEC A	(English)	EPABF2	10828
Total word count - document A			11921
Total word count - document B			0
Total word count - documents A + B			11921

..SPECIFICATION and customer specific applications with an ease and efficiency not possible with traditional systems. The invention accurately represents the real world, offers a more natural **human** interface, evolves with the the network and can be used accross multiple activities and disciplines within the company. The method according to the present invention...

..each of said objects being associated to only one network level,  
determining geographical Position of said Objects,  
defining quantitative Relationships between said Objects,  
defining presentation **rules** for said Objects,  
determining validation **rules** .  
storing the information generated in all preceding steps in said common and unique **Database** .

\* the **automatic generation** of applications :

The applications used to create, design, represent, and manage the telecommunication network interact directly with the Database ensuring that the the position and Relationships of the Objects are always logically **correct** and consistent according to the model **rules** previously defined.

The Error Checking application gives the possibility to check inconsistencies and errors that may arise during registration and maintenance of the network data...

...implemented.

The Document Management application generates user defined standard documents.

The Graphic application generates schematic representation of the network based on a set of presentation **rules** and methods using standard algorithm graph theories.

Description of the drawings

Figure 1 describes the division of the network into Edge Objects and Node Objects...a new graphic is requested. Furthermore, a displayed drawing is always consistent with the other representations of the Database content. As previously described in the **definition** of the Presentation **Rules** , the different graphics can be distributed in four classes :

1. Geographical Drawings,
2. Logical Drawings,
3. Expanded Views,
4. Cross-Sections. The representation of the...

11/5,K/3 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00481958

Automated and transparent denormalization support.

Automatisches und benutzertransparentes Denormalisationsverfahren.

**Procede de denormalisation automatique et transparent a l'utilisateur.**

**PATENT ASSIGNEE:**

TEXAS INSTRUMENTS INCORPORATED, (279070), 13500 North Central Expressway,  
Dallas Texas 75265, (US), (applicant designated states: DE;FR;GB;IT;NL)

**INVENTOR:**

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Whitehurst, Richard P., 2216 Old Orchard Court, Plano, Texas 75023, (US)

**LEGAL REPRESENTATIVE:**

Abbott, David John et al (27491), Abel & Imray Northumberland House  
303-306 High Holborn, London, WC1V 7LH, (GB)

PATENT (CC, No, Kind, Date): EP 449568 A2 911002 (Basic)  
EP 449568 A3 930908

APPLICATION (CC, No, Date): EP 91302606 910326;

PRIORITY (CC, No, Date): US 502351 900330

DESIGNATED STATES: DE; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS: G06F-015/40;

**CITED REFERENCES (EP A):**

AUSTRALIAN COMPUTER JOURNAL vol. 14, no. 1, February 1982, pages 12 - 18  
SCHKOLNICK M., SORENSON P. 'The Effects of Denormalisation on Dtabase  
Performance'  
IEEE PROCEEDINGS OF THE 23RD ANNUAL HAWAII INTERNATIONAL CONFERENCE ON  
SYSTEM SCIENCES, 5 January 1990, KAILUA-KONA, HI, USA pages 298 - 307  
DESHPANDE V., LARSON P.A. 'Transforming from Flat Algebra to Nested  
Algebra'  
SMC XII PROCEEDINGS OF THE 12TH STRUCTURED METHODS CONFERENCE, 6 August  
1987, CHICAGO, IL, USA pages 148 - 165 INMON W.H. 'DENORMALIZATION OF  
DATA';

**ABSTRACT EP 449568 A2**

A system may be used to enable a database administrator to selectively  
denormalize a database transparently to users and programmers. The system  
keeps a record of the mapping between the denormalized fields and the  
base fields from which they are derived. Processors access those recorded  
links to keep the database self-consistent and to retrieve data from  
denormalized fields whenever possible. (see image in original document)

ABSTRACT WORD COUNT: 67

**LEGAL STATUS (Type, Pub Date, Kind, Text):**

Application: 911002 A2 Published application (Alwith Search Report  
;A2without Search Report)  
Search Report: 930908 A3 Separate publication of the European or  
International search report  
Examination: 940504 A2 Date of filing of request for examination:  
940307  
Examination: 970730 A2 Date of despatch of first examination report:  
970613  
Change: 970924 A2 Representative (change)  
\*Assignee: 970924 A2 Applicant (transfer of rights) (change):  
Sterling Software, Inc. (2345510) 300 Crescent  
Court, Suite 1200 Dallas, Texas 75201 (US)  
(applicant designated states: DE;FR;GB;IT;NL)  
\*Assignee: 970924 A2 Previous applicant in case of transfer of  
rights (change): TEXAS INSTRUMENTS INCORPORATED  
(279070) 13500 North Central Expressway Dallas  
Texas 75265 (US) (applicant designated states:  
DE;FR;GB;IT;NL)  
Withdrawal: 980610 A2 Date on which the European patent application  
was deemed to be withdrawn: 971224

LANGUAGE (Publication,Procedural,Application): English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	297
SPEC A	(English)	EPABF1	5733
Total word count - document A			6030
Total word count - document B			0
Total word count - documents A + B			6030

...SPECIFICATION that information can be retrieved without joins. In the

present invention denormalization support is automatic and transparent to the user. The users, and the application **programmers**, describe the data using normalized **schema**. Furthermore, they enter queries and data manipulation statements with respect to the normalized **schema**. However, the database administrator may denormalize the **schema** for the sake of improving retrieval speed. Although the database is denormalized, users and **programmers** continue to enter queries and write programs with respect to the normalized **schema**. Data anomalies, normally associated with an unnormalized **database**, are avoided by **automatically generating** data manipulation statements which maintain data **integrity**.

In the present invention, the database designers enter the data model descriptions using Entity Relationship Diagrams (ERD), a language which implements the Entity Relationship Model...

11/5,K/20 (Item 15 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00569844 \*\*Image available\*\*

**CLIENT SERVER SYSTEM WITH THIN CLIENT ARCHITECTURE**  
**SYSTEME CLIENT-SERVEUR A ARCHITECTURE DE CLIENTINIMALE**

Patent Applicant/Assignee:

SIEBEL SYSTEMS INC,  
AMBROSE Jesse,  
ARNAIZ Gilberto,  
COKER John L,  
HAHN Samuel,  
KATCHOUR Ernst,  
ROTHWEIN Thomas M,  
SCHWARTZ David C,

Inventor(s):

AMBROSE Jesse,  
ARNAIZ Gilberto,  
COKER John L,  
HAHN Samuel,  
KATCHOUR Ernst,  
ROTHWEIN Thomas M,  
SCHWARTZ David C,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200033217 A1 20000608 (WO 0033217)  
Application: WO 99US28414 19991130 (PCT/WO US9928414)  
Priority Application: US 98110191 19981130

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK

DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ  
BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT  
SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class: G06F-017/30

International Patent Class: G06F-007/00

Publication Language: English

Fulltext Availability:

Detailed Description  
Claims

Fulltext Word Count: 19872

English Abstract

Web-based client-server systems with thin client architecture. More specifically, it relates to a method and system for transferring service requests and responses to the requests between a thin client (15) and an enterprise server in a client-server system.

French Abstract

L'invention concerne des systemes client-serveur Internet, qui possedent une architecture de client minimale. Plus specialement, l'invention concerne un procede et un systeme de transfert de demandes de services et

des reponses a ces demandes entre un client minimum (15) et un serveur d'entreprise, au sein d'un systeme client-serveur.

Fulltext Availability:  
Detailed Description

Detailed Description  
... using the Application Upgrader.

+ The Data Manager layer used by all Siebel programs automatically generates the SQL required for database access from the logical database **schema**, obviating the need for Siebel application **developers** to write, maintain, and tune the often complex SQL statements.

Comprehensive Application Interfaces

The ability to integrate seamless and transparently with other enterprise applications is...

11/5,K/21 (Item 16 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00535034

**BAIT SOFTWARE**

**LOGICIEL DE PROTECTION**

Patent Applicant/Assignee:

AHMADI Babak,  
WIMMER Carl P,

Inventor(s):

AHMADI Babak,  
WIMMER Carl P,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9966386 A1 19991223

Application: WO 99CA560 19990618 (PCT/WO CA9900560)

Priority Application: US 9889772 19980618

Designated States: CA JP US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL  
PT SE

Main International Patent Class: G06F-001/00

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 6306

English Abstract

The present invention affords a software developer the ability to influence and/or control a copy of an application after he has lost physical possession of that copy. Baitware enables this through the inclusion of one or more features whose inclusion or removal, whose activation or subsequent deactivation are absolutely denied to the end user. Baitware extends this protection through a multilayer set of requirements, including fixing the copy of the application to one or more specific machines, registering this information at a remote server and subsequently transmitting to valid users only the correct keys to activate or deactivate usage blocking features.

French Abstract

Le procede de l'invention permet a un developpeur de logiciel d'agir sur et/ou de controler une copie d'une application une fois qu'il en a perdu la possession materielle. L'operation est faisable grace a l'integration dans le logiciel de protection d'une ou plusieurs fonctions dont l'inclusion ou l'exclusion, l'activation ou la desactivation subsequentes sont absolument refusees a l'utilisateur final. Pour etendre cette protection, le logiciel de protection met en oeuvre un ensemble de criteres multicouches consistant a limiter la copie de l'application a une ou plusieurs machines specifiques, a entrer cette information dans un serveur eloigne afin de ne transmettre qu'aux seuls utilisateurs

autorises les veritables cles permettant d'activer ou de desactiver l'usage des fonctions de blocage.

Fulltext Availability:  
Claims

Claim

... where Y is defined as the life-time of the software in version V(X+I),  
iii.) If not found, recording all registration data and **dynamically generated** data to the central **data base** of step d, identifying a particular MTV as an illegal, but still upgraded user,  
Q) Distributing the software in version V(X+I) constructed in step-e as a free upgrade within a time period, T(U), after the release date, DN' where T(U) is specified by the software **developer** as the time period required for the product to reach 100% of currently legal users,  
g.) Disabling each copy of the software in version... software is run on or after the death date, comprising the steps of  
i.) Executing and/or undertaking all additional actions specified by the software **developer**,  
ii.) Further disabling the software in version VW, thereby also disabling any future re-installations of the software in version VNI  
h.) Contacting all illegal users recorded in the Customer Database on the death date D(d), and communicating all software **developer** specified information. - 30

2 A method and means of software distribution and re-distribution whereby software piracy is eliminated; the process comprising the same steps...

11/5, K/22 (Item 17 from file: 349)  
DIALOG(R) File 349: PCT FULLTEXT  
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00501653 \*\*Image available\*\*

OBJECT-RELATIONAL MAPPING TOOL THAT PROCESSES VIEWS  
OUTIL DE MAPPAGE OBJET/RELATION POUR LE TRAITEMENT DE VUES

Patent Applicant/Assignee:

SHARMA Rahul,  
DEMICHIEL Linda G,

Inventor(s):

SHARMA Rahul,  
~~DEMICHIEL Linda G,~~

Patent and Priority Information (Country, Number, Date):

Patent: WO 9933005 A1 19990701

Application: WO 98US27246 19981221 (PCT/WO US9827246)

Priority Application: US 9768415 19971222; US 98106186 19980629

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES  
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU  
LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA  
UG UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT  
BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA  
GN GW ML MR NE SN TD TG

Main International Patent Class: G06F-017/30

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 7556

English Abstract

An object-relational mapping tool that can process views is provided. In processing views, the object-relational mapping tool identifies the dependency relationship between the various views and tables and allows the programmer to customize the mapping that will occur by selectively

determining which tables and views get mapped. This customization allows the mapping tool to map an individual table or view or to map (1) all tables and views, (2) all tables only, and (3) tables and views for which there are no dependencies. Also, the mapping tool allows the programmer to view and set the updatability of a particular view or table.

#### French Abstract

L'invention porte sur un outil de mappage objet/relation pouvant traiter des vues. Pendant leur traitement, l'outil identifie la dependance entre les différentes vues et tables et donne au programmeur la possibilite de personnaliser le mappage qui se fera par determination selective des tables et vues a mapper. Cette personnalisation permet a l'outil de mapper une table ou une mappe particuliere, ou de mapper (1) l'ensemble des tables et vues (2), l'ensemble des tables seules et (3) les tables et vues sans dependance. L'outil permet en outre au programmeur de visualiser une vue ou une table particuliere et d'en fixer la possibilite d'actualisation.

#### Fulltext Availability:

Detailed Description

#### Detailed Description

... the selected views and tables, or if automatic mapping was not selected, or if the mapping tool is merely opening a previously saved imported database **schema**, the object-relational mapping tool displays the mapping status in a user-interface mapping window (state 312). The user-interface mapping window provides a mapping summary of the imported database **schema**, its corresponding database structures, object models, and source code. In addition, the user-interface mapping window allows the **programmer** to customize the mapping, via **programmer** interaction with the display screen.

As shown in Figure 4, the user-interface mapping window 400, in part, contains a mapping status section 404 which...

11/5,K/23 (Item 18 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00483299 \*\*Image available\*\*

METHOD AND SYSTEM FOR DATABASE APPLICATION SOFTWARE CREATION REQUIRING  
MINIMAL PROGRAMMING  
PROCEDE ET SYSTEME DE CREATION DE LOGICIEL D'APPLICATION POUR BASE DE  
DONNEES REQUERANT UNE PROGRAMMATION MINIMALE

Patent Applicant/Assignee:

TENFOLD CORPORATION,

Inventor(s):

WALKER Jeffrey L,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9914651 A2 19990325

Application: WO 98US19108 19980915 (PCT/WO US9819108)

Priority Application: US 97932255 19970917

Designated States: AU CA AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT  
SE

Main International Patent Class: G06F-009/445

International Patent Class: G06F-009/45

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 16864

#### English Abstract

A system and method for computer-assisted database management software creation of a target software application from a description known as dictionary (106) interoperating with universal software application (108). Dictionary (106) contents customize universal application (108)



into target software application (100) created from a high-level dialog between an application designer and graphical application editor (104). Application editor (104) provides an environment for editing and creating custom applications and automatically creates security partitioning of responsibilities and users, hierarchical menu structures, groupings of database data elements into efficient sets, database transactions and database partitioning without requiring programming in SQL language by an application designer. The computer stores dictionary (106) in a database for accessing by universal application (108). Dictionary (106) customizes re-usable universal application (108) for interaction with relational databases such as Oracle(R), IBM(R) DB2, and Sybase(R).

#### French Abstract

La presente invention concerne un systeme et un procede de creation de logiciel de gestion de base de donnees assiste par ordinateur d'une application logicielle cible a partir d'une description connue sous forme de dictionnaire (106) fonctionnant avec une application logicielle universelle (108). Le contenu du dictionnaire (106) personnalise l'application universelle (108) en une application logicielle cible (100) creee a partir d'un dialogue de niveau eleve entre un concepteur d'application et un editeur (104) d'application graphique. L'editeur (104) d'application fournit un environnement permettant de creer et d'editer des applications personnalisees. L'editeur cree automatiquement un partitionnement de securite des responsabilites et des utilisateurs, des structures hierarchiques de menu, des groupages d'elements de donnees de base, de donnees en ensembles efficaces, des transactions de base de donnees et un partitionnement de base de donnees sans qu'un concepteur d'application ait recours a une programmation en langage SQL. L'ordinateur stocke le dictionnaire (106) dans une base de donnees de sorte qu'une application universelle (108) peut y acceder. Le dictionnaire (106) personnalise une application universelle (108) reutilisable de facon a interagir avec une base de donnees relationnelle telle qu'Oracle(R), IBM(R) et Sybase(R).

#### Fulltext Availability:

Claims

#### Claim

.. described in dictionary 106, application editor 104 supports automated forward engineering of the desired target application database 102 by defining and creating the relational database **schema**. 1 5 Figure 3 is a simplified flowchart for creating a custom target application, in accordance with the preferred embodiment of the present invention. Target ...

..name application step 122 by creating a separate dictionary 106 or a logical area within an existing dictionary 106 wherein descriptions including transaction and set **definitions** of the target application are stored for future modification by the application editor 104 or by future use by the universal application 108. The present...relationships. To create sets, an application designer employs application editor 104 (Figure 2) to create information within dictionary 106 containing the description of the set **definitions**. Create set step 134 defines and refines a set applications object in dictionary 106. Create set step 134 allows the **definition** of sets for use in building transactions, reports, analyses, and server programs. By employing sets, an application designer may maintain a top-down design of...

..application processing. Referring to Figure 4 for a simplified diagram of the mapping of a set layer of the present invention to a physical database **schema** of an application database, sets may be thought of figuratively as business objects for collecting data that possess a defined group of relationships. A vendor...set designator. For example, in the present invention, a user may query for PO #1 with the architecture of the present invention referencing the set **definition** and extracting the corresponding data from application database 102. By facilitating the **definition** of relationships into sets, the present invention provides an abstraction of a user interface layer 208 from a physical layer 202. Additionally, such capability facilitates...

...the present invention, the concept of sets allows an application designer to define all the data on which the target application will possibly operate. The **database** library 238 (Figure 7) **automatically creates** SQL necessary for manipulating application **database** 102 (Figure 2). Returning to Figure 3, a define transaction step 136 captures and maintains information about a specific relationship or collection of information. In...

...a database to a user, or perform the previous functions without presenting information to a user. Additionally, a transaction may invoke a variety of business **rules** that an application **developer** can describe as snippets (Figure 5). A define reports step 138 captures and maintains information about a specific report. In the preferred embodiment, application editor...report requests together so that the user can obtain multiple reports such as their end-of-month reports with a single request, and maintain the **definition** of a report group. Additionally, all report requests support flexible options such as date ranges for the data included in the report. In the preferred...example, other fields may be incorporated such as hot keys and separate text fields for providing isolated prompts. A prototype database transaction 170 accommodates a **definition** and refinement 15 of a table application object in dictionary 106. Prototype database transaction 170 facilitates the **definition** of database tables that may be referenced when a set is defined. In the preferred embodiment, prototype database transaction 170 is presented by application editor...second entity to the same data due to the data's absence from the second's hierarchy. 5 A prototype sets transaction 180 facilitates the **definition**, refinement, and description of sets in dictionary 106. Prototype sets transaction 180 accommodates expedient set **definitions** for building transactions, frames, reports, analyses, and server programs. In the preferred embodiment, sets may be easily defined according to the structure and contents of...associated with the view may be enumerated or, in the preferred embodiment, a user may use a draft view function which automatically drafts a **definition** of the present view. The draft view function creates a field and reference for every column and join defined in the views basis table. When...

...and automatically displays the new fields and references which may be subsequently edited.

Prototype sets transaction 180 further comprises a conditions module for accommodating the **definition** of a field with different calculation **definitions** used when specified conditions are satisfied. For example, a condition specifying when the "4 calculation" value is applied to the field may be entered and...

...one or more frames for the present transaction. When frames are prototyped, application editor 104 displays and arranges the fields on frames using default frame **definitions**. While prototype transaction 190 facilitates viewing and updating of various attributes of a transaction, other features may be employed to incorporate more major refinements...a value for the field in question occurring within the domain of valid values as presented by the smart pick module. A validation module defines **rules** for validating fields, either individually or as a group of fields. A prototype smart codes transaction 195 facilitates the addition of a new smart code...

...suite of choices may be programmed and provide the constraints for the domain of valid values for a particular column in a table. The application **programmer** thereby limits the domain of valid choices that an end-user may enter into the database. A reports transaction 200 provides an automated method of...

METHOD AND APPARATUS FOR BINDING USER INTERFACE OBJECTS TO APPLICATION  
OBJECTS

PROCEDE ET APPAREIL POUR LIER DES OBJETS D'UNE INTERFACE UTILISATEUR A DES  
OBJETS D'UNE APPLICATION

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

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Designated States: JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: G06F-009/44

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 10187

English Abstract

A graphical user interface (GUI) and accompanying functionality for binding Web page definitional elements to a back-end state (e.g., client-  
or-server-side back-end state) and custom logic is provided. In one embodiment, a template containing definitional elements, custom logic, and bindings are generated that define all or a portion of a Web page based on input received and functionality provided by the invention.

French Abstract

Cette invention se rapporte a une interface utilisateur graphique (GUI) et aux fonctions qui l'accompagnent servant a lier des elements de definition d'une page Web a une logique d'etat dorsale(par exemple du cote client ou du cote serveur) et a une logique personnalisee. Dans un mode de realisation, cette invention produit un modele contenant des elements de definition, une logique personnalisee et des liens, qui definissent la totalite ou une partie d'une page Web sur la base d'une entree recue et des fonctions fournies par cette invention.

Fulltext Availability:

Detailed Description

Detailed Description

... bindings using selections made by the GUI user (e.g., a Web application developer). Bindings can be made between definitional elements and elements of a **database** using the invention.

**Dynamic** Web pages can be **generated** using data retrieved from a database.

Further, input received from a Web page can be stored in a database.

Figure 2 provides an functional overview...

11/5,K/25 (Item 20 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00401828 \*\*Image available\*\*

ENTERPRISE TRANSITION SYSTEM FOR A DISTRIBUTED INFRASTRUCTURE

SYSTEME DE TRANSITION POUR ENTREPRISE DESTINE A UNE INFRASTRUCTURE REPARTIE

Patent Applicant/Assignee:

I-CUBE,

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ANAND Madhav,  
ASLANIAN Edouard,

Inventor(s):

EAGER Timothy,  
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Patent and Priority Information (Country, Number, Date):

Patent: WO 9742572 A1 19971113

Application: WO 97US7348 19970501 (PCT/WO US9707348)

Priority Application: US 9616330 19960503; US 96714205 19960916

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES

FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN

MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN YU GH

KE LS MW SD SZ UG AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB

GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Main International Patent Class: G06F-009/44

International Patent Class: G06F-17:60

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 19408

English Abstract

An automated system transitions an entire enterprise to a distributed infrastructure. The system includes a process for organizing and managing the transition, a multi-tiered client/server architecture that adheres to open systems standards, a system to automate the transition of existing applications to this architecture, and a system to enable the creation or modification of applications based on this architecture.

French Abstract

Un systeme automatise effectue la transition, pour l'ensemble d'une entreprise, vers un systeme reparti. Le systeme comprend un procede permettant d'organiser et de gerer la transition, une architecture client/serveur etagee, qui applique les standards des systemes ouverts, un systeme permettant d'automatiser la transition des applications existantes vers ladite architecture, et un systeme permettant de creer ou de modifier des applications sur la base de cette architecture.

Fulltext Availability:

Detailed Description

Detailed Description

... is a block diagram of the first phase transformer program 224 of FIG. 17. As shown, the main elements of this transformer are a grammar **definition** for the source language 251, a **dynamic** symbol **table generator** for the source language 252, and a number of **rules** 253 for transforming a source language 221 to the meta language 225. In addition, an external data dictionary 228 contains the data structures, **definitions**, and common logic constructs pertaining to the source application.

In terms of control flow, the first phase transformer 224 receives a file of source language...to the first phase transformation, the main elements of the second phase transformer 226 are a grammar definition 261 for the meta language 225, a **dynamic** symbol **table generator** 262 for the meta language 225, and a number of -43 **rules** 263 for transforming the meta language 225 to a target language 227. In addition, the second phase transformer program 226 uses the same external data...

15/5,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01445816

Application program and documentation generator system and method  
Applikationsprogramm und Verfahren und Vorrichtung zur  
Documentationserzeugung  
Programme d'application et systeme et methode pour la generation de  
documentation

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PATENT (CC, No, Kind, Date): EP 1235147 A2 020828 (Basic)

APPLICATION (CC, No, Date): EP 2002075692 961010;

PRIORITY (CC, No, Date): US 549633 951027

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;  
MC; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 858629 (EP 96936349)

INTERNATIONAL PATENT CLASS: G06F-009/44

ABSTRACT EP 1235147 A2

Automatic generation of an application program is performed by a  
programmed system (30) including a guided editor (32) for establishing  
program (76), data (74), and field definitions (78) into a plurality of  
functionally descriptive atomic sequences (38), each describing a unique  
characteristic such that a plurality of frames, each comprising zero or  
more functionally descriptive atomic sequences from each of the  
functionally descriptive sequences, respectfully describes the plurality  
of input event elements (14). A rule processor (66), including a program  
rule base (62) conditionally describing the structure and operation of a  
predetermined application program, autonomously processes the program  
rule base (62) in concert with the plurality of functionally descriptive  
atomic sequences (38) proceeding generally sequentially over the  
plurality of frames conditionally unifying the plurality of functionally  
descriptive atomic sequences (38) with the structure and operation of the  
predetermined application program. A syntax processor (22), including a  
syntax rule base (128) defining the syntax of a predetermined programming  
language, then autonomously unifies the plurality of functionally  
descriptive atomic sequences with the syntax of the predetermined  
programming language, then autonomously unifies the plurality of  
functionally descriptive atomic sequences (38) with the syntax of the  
predetermined programming language to provide a coded representation (24)  
of the structure and operation of the predetermined application program.

ABSTRACT WORD COUNT: 212

NOTE:

Figure number on first page: NONE

LEGAL STATUS-(Type, Pub Date, Kind, Text):

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Examination: 020828 A2 Date of request for examination: 20020220

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200235	1838
SPEC A	(English)	200235	10962
Total word count - document A			12800
Total word count - document B			0
Total word count - documents A + B			12800

INTERNATIONAL PATENT CLASS: G06F-009/44

...SPECIFICATION form and report generator shells commonly used with or provided as part of database management systems. These systems permit reasonably complete screen and report layout **definition** through the identification of field locations, data types and formatting, and relations to data stored in an underlying, predefined database management system. An operative program...

...defined correspondence between form, report and database fields. The concept of a data dictionary has been introduced to, in part, support internal documentation of the **relational** correspondence between the defined **database** fields and the form and report fields. Such systems typically provide little additional support of application design, little if any support of functional logic to process data transported to or from the **database**, and essentially no **automatic** documentation of the programs **generated**.

In order to support a greater degree of internal functional capabilities, program synthesizers based on libraries of pre-established program parts have been proposed. A...

15/5,K/11 (Item 11 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00828484

COMPUTER SYSTEM FOR CREATING SEMANTIC OBJECT MODELS FROM EXISTING  
RELATIONAL DATABASE SCHEMAS  
RECHNERSYSTEM UM SEMANTISCHE OBJEKTMODELLE VON EXISTIERENDEN RELATIONELLEN  
DATENBANKSYSTEMEN HERZUSTELLEN  
SYSTEME INFORMATIQUE DE CREATION DE MODELES D'OBJETS SEMANTIQUES A PARTIR  
DE SCHEMAS DE BASES DE DONNEES RELATIONNELLES EXISTANTES

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 834141 A1 980408 (Basic)

EP 834141 B1 990506

WO 9641282 961219

APPLICATION (CC, No, Date): EP 96917975 960603; WO 96US8563 960603

PRIORITY (CC, No, Date): US 478377 950607

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;  
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INTERNATIONAL PATENT CLASS: G06F-017/30

NOTE:

No A-document published by EPO

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Lapse: 000607 B1 Date of lapse of European Patent in a  
contracting state (Country, date): BE  
19990506, FI 19990807,

Oppn None: 20000426 B1 No opposition filed: 20000208

Lapse: 020605 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
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19990506, FI 19990506, GR 19990506, MC  
19991231, PT 19990806, SE 19990506,

Lapse: 010606 B1 Date of lapse of European Patent in a  
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19990506, BE 19990506, CH 19990506, LI  
19990506, FI 19990807, GR 19990506, MC  
19991231, PT 19990806,

Lapse: 001213 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
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19990811, FI 19990807, MC 19991231, PT 19990806,

Lapse: 000614 B1 Date of lapse of European Patent in a contracting state (Country, date): AT 19990506, BE 19990506, FI 19990807,

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Lapse: 010718 B1 Date of lapse of European Patent in a contracting state (Country, date): AT 19990506, BE 19990506, CH 19990506, LI 19990506, FI 19990506, GR 19990506, MC 19991231, PT 19990806,

Application: 970416 A1 International application (Art. 158(1))

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Available Text	Language	Update	Word Count
CLAIMS B	(English)	9918	1848
CLAIMS B	(German)	9918	1800
CLAIMS B	(French)	9918	2247
SPEC B	(English)	9918	9748
Total word count - document A			0
Total word count - document B			15643
Total word count - documents A + B			15643

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION and the like.

While the database modeling system described in the patent application WO-A-95 12172 represents a significant improvement in the art of **database** modeling, no mechanism is provided for **automatically producing** a semantic object model of an existing **database** schema that may have been created with a traditional **relational database** program. Therefore, there is a need for a system that can analyze an existing **relational database** in order to create a corresponding semantic object model.

#### Summary of the Invention

The present invention is a computer system programmed to automatically create a...

15/5,K/27 (Item 10 from file: 349)  
 DIALOG(R)File 349:PCT FULLTEXT  
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00538774 \*\*Image available\*\*  
**A METHOD OF CONSTRUCTING A CONTEXT-DEPENDENT DATABASE**  
**PROCEDE DE REALISATION D'UNE BASE DE DONNEES DEPENDANTE DU CONTEXTE**  
 Patent Applicant/Assignee:  
 PERIGIS CORPORATION,  
 HERBERT Charles St John III,  
 Inventor(s):  
 HERBERT Charles St John III,  
 Patent and Priority Information (Country, Number, Date):

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Application: WO 99US14723 19990628 (PCT/WO US9914723)  
Priority Application: US 98111387 19980707

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT  
UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD  
RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF  
CG CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class: G06F-017/30

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 11073

#### English Abstract

A method of constructing a multi-lingual database includes the step of defining meta data to describe fields of a record as being either language-dependent (42f, 42g) or language-independent (42a-42e). The fields of the record are so described by flagging descriptions of columns associated with the fields in the meta data. A composite table, identifying a parent table (36) and a child table (38) is then automatically generated. The parent table (36) includes columns (42a-42b) for the language-independent fields of the record, while the child table (38) includes columns (42f, 42g) for the language-dependent fields of the record.

#### French Abstract

L'invention concerne un procede de realisation d'une base de donnees multilingue, le procede consistant a definir une metadonnee pour decrire des champs d'un enregistrement comme dependants du langage (42f, 42g) ou independants du langage (42a-42e). On effectue cette description des champs de l'enregistrement en signalant des descriptions de colonnes associees aux champs dans la metadonnee. Une table composite, identifiant une table maitresse (36) et une table secondaire (38) sont alors automatiquement generees. La table maitresse (36) comprend des colonnes (42a-42e) destinees aux champs independants du langage de l'enregistrement, alors que la table secondaire (38) comprend des colonnes (42f, 42g) destinees aux champs dependants du langage de l'enregistrement.

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

#### Detailed Description

... be included within the view objects 32. Both the manually written and automatically generated views may automatically be updated by the update logic 42 of database system 14.

Stored procedure objects 34 typically comprise programs (or code segments) that are stored in the generated database 18 and that perform essential functions relating to the database system 14. For example, a stored procedure object 34 may comprise a program for extracting pertinent information from a table object 30, and then generating a personalized letter to a customer containing information retrieved from the table objects 30. A stored procedure object 30 may be triggered by a user-specified trigger event pertaining to the generated database 18. As shown in Figure 5, stored procedure objects...

...either manually written

stored procedures 34a or automatically generated stored procedures 34b, which are generated according to the teachings of the present invention by the build logic 40 of the database system 14. The automatically generated (or code



generated ) stored procedures 34b include control procedures, insert procedures, delete procedures, update procedures and subroutine update procedures. Both the manually written and automatically generated procedures may be automatically updated by the update logic 42 of database system 14. Table 1 specifies, for an exemplary generated database 18, procedure definitions by procedure type.

Table 1

Description	How Defined	How Generated
Procedure Type		
MAN	Manually Written	Manually
(Manual) Procedure		
DEF	Defaulting	Manually
(Defaulting) Procedure		
VAL	Validation	Manually

...Update

Procedure  
DEL Generated Generated Build +  
(Delete) Standard Table Upgrade Logic  
Delete Procedure

Table 2 lists a number of stored procedure objects, in the "Associated Definitions " columnn, that are included in an exemplary database described below with reference to Figure 6.

Table 2

How Associated Definitions  
Procedure Type Associated Definitions Defined...

15/5,K/35 (Item 18 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00106554 \*\*Image available\*\*

DATA PROCESSING SYSTEM

SYSTEME DE TRAITEMENT DE DONNEES

Patent Applicant/Assignee:

INTEL CORP,

Inventor(s):

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RATTNER J,

COX G,

SWANSON R,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8102477 A1 19810903

Application: WO 80US205 19800228 (PCT/WO US8000205)

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International Patent Class: G06F-07:00 ; G06F-09:00 ; G06F-13:00 ;

G06F-15:16 ; G06F-15:20

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 139912

English Abstract

A data processor architecture wherein the processors recognize two basic types of objects, an object being a representation of related information maintained in a contiguously addressed set of memory locations. The first type of object contains ordinary data, such as characters, integers, reals, etc. The second type of object contains a list of access descriptors. Each access descriptor provides information for locating and defining the extent of access to an object associated with that access descriptor. The processors recognize complex objects that are

combinations of objects of the basic types. One such complex object (94) defines an environment (18 or 20) for execution of objects (92, 93, 98, 106, 122) accessible to a given instance of a procedural operation. The dispatching of tasks to the processor is accomplished by hardware-controlled queuing mechanisms (36), dispatching-port objects (146) which allow multiple sets of processors (38) and (40) to serve multiple, but independent sets of tasks (14, 16). Communication between asynchronous tasks or processes is accomplished by related hardware controlled queuing mechanisms (34) (buffered-port objects) (144) which allow messages to move between internal processes or input/output processes without the need for interrupts. A mechanism (42) is provided which allows the processors to communicate with each other. This mechanism is used to reawaken an idle processor to alert the processor to the fact that a ready-to-run process at a dispatching port needs execution.

#### French Abstract

Structure de processeur de donnees dans laquelle les processeurs reconnaissent deux types fondamentaux d'objets, un objet etant constitue par une representation d'informations connexes maintenues dans un groupe d'emplacements de memoire adresse en contiguite. Le premier type d'objets contient des donnees ordinaires, telles que des caracteres, des nombres entiers, reels, etc. Le deuxieme type d'objets contient une liste de descripteurs d'accès. Chaque descripteur d'accès fournit une information servant a localiser et definir l'etendue de l'accès a un objet associe a ce descripteur. Les processeurs reconnaissent des objets complexes constitues par des combinaisons d'objets des types fondamentaux. Un tel objet complexe (94) definit un environnement (18) ou (20) pour l'execution d'objets (92, 93, 98, 106, 122) accessible a un moment donne d'une operation de traitement. La repartition des taches aux processeurs est executee par des mecanismes (36) de mise en file d'attente commandes par le materiel, des objets (146) de points de connexion de repartition permettant a des groupes multiples de processeurs (38 et 40) d'executer des ensembles de taches (14, 16) multiples mais independantes. La communication entre des taches ou traitement asynchrones est executee par les mecanismes (34) relatifs de mise en file d'attente commandes par le materiel (objets de points de connexion dotes d'un tampon) (144) permettant la circulation des messages entre les traitements internes ou les operations d'entree/sortie sans que des interruptions soient necessaires. Un mecanisme (42) est prevu permettant la communication entre les processeurs. Ce mecanisme est utilise pour reactiver un processeur inactif pour signaler au processeur une operation prete a passer a un point de connexion de repartition avant d'etre executee.

Main International Patent Class: G06F-003/00

International Patent Class: G06F-07:00 ...

... G06F-09:00 ....

... G06F-13:00 ...

... G06F-15:16 ...

... G06F-15:20

Fulltext Availability:

Detailed Description

#### Detailed Description

... d, db, w, dw-, and ew represent byter double-byte, word, double-word, and extended-word operands, respectively. A branch entry in the operand length column indicates that operators in that class require a branch reference, The number of operators in each class and the class's format field field type...

File 347:JAPIO Oct 1976-2002/Jul(Updated 021104)

(c) 2002 JPO & JAPIO

File 350:Derwent WPIX 1963-2002/UD,UM &UP=200276

(c) 2002 Thomson Derwent

Set	Items	Description
S1	1253	(AUTOMATIC? OR DYNAMIC? OR TRANSPARENT? OR ON(1W)FLY OR BEHIND(2W)SCENE? ? OR REAL()TIME) (3N) (CREAT? OR GENERAT? OR BUILD? OR CONSTRUCT? OR PRODUC? OR SET????()UP OR ESTABLISH?) (3N-)(DATABASE? ? OR DATA()BASE? ? OR TABLE? ?)
S2	55148	(RELATIONSHIP? ? OR RELATEDNESS OR RELAT???? OR ASSOCIAT? - OR LINK??? OR OPERATION? ? OR PROCEDURE? ? OR FUNCTION? ? OR - RULE? ? OR INTEGRITY OR CORRECT?) (5N) (ROW? ? OR COLUMN? ? OR - DATABASE? ? OR DATA()BASE? ? OR TABLE? ?)
S3	42331	DEFINITION? ? OR SCHEMA? ?
S4	158	DATAMART? ? OR DATAWAREHOUSE? ? OR DATA() (MART? ? OR WAREHOUSE? ?)
S5	92	S1 AND S3
S6	87	S5 AND IC=G06F
S7	0	S6 AND S4
S8	37	S6 AND S2
S9	573789	INTEGRITY OR RULE? ? OR CORRECT????
S10	245410	HUMAN? ? OR PROGRAMMER? ? OR DEVELOPER? ?
S11	14	S6 AND S9:S10
S12	17	S1(30N)S3 AND S2 AND IC=G06F
S13	11	S11 NOT S12

12/5/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06341054 \*\*Image available\*\*  
INTERACTIVE SOFTWARE CONSTRUCTING/DRIVING DEVICE

PUB. NO.: 11-282658 [JP 11282658 A]  
PUBLISHED: October 15, 1999 (19991015)  
INVENTOR(s): MATSUZUKA TAKAHIDE  
NAGAHASHI KENJI  
HARA HIROTAKA  
UEHARA SANPACHI  
APPLICANT(s): FUJITSU LTD  
APPL. NO.: 10-086099 [JP 9886099]  
FILED: March 31, 1998 (19980331)  
INTL CLASS: G06F-009/06

#### ABSTRACT

PROBLEM TO BE SOLVED: To efficiently develop an interactive business application constituted of many display pictures, to automatically prepare a part of software based on specifications generated at the time of preparing specifications and to efficiently execute the development and maintenance of the software by mutually separating a picture display part, an action execution part and a **database operation** part.

SOLUTION: A state transition **definition** table 101 describes state transition **definition**. A state transition **table generation** class 102 is **automatically generated** from the **table** 101. A state transition management module 103 controls the state transition of a picture by using a state transmission table generated from the class 102 based on the input of an event generated from the display picture and controls the display of the picture based on the state transition.

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12/5/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2002 JPO & JAPIO. All rts. reserv.

05949703 \*\*Image available\*\*  
PROGRAM CONVERSION SYSTEM

PUB. NO.: 10-232803 [JP 10232803 A]  
PUBLISHED: September 02, 1998 (19980902)  
INVENTOR(s): KONDO SEIICHI  
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 09-035822 [JP 9735822]  
FILED: February 20, 1997 (19970220)  
INTL CLASS: [6] G06F-012/00 ; G06F-009/45  
JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units); 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units)

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a program conversion system for easily and surely converting a program sentence by an ISAM form to the program sentence by a relational data base language.

SOLUTION: This system is provided with an instruction extraction part 11 for extracting the program sentence **relating** to access to the **data base** of the ISAM form from a conversion origin program 2, an automatic SQL sentence **generation** part 12 for **automatically generating** an SQL sentence for defining a relational **data base** and a table, etc., for using data base **definition** information extracted from the program sentence extracted by the instruction extraction part 11 by applying it to a prepared routine sentence and an automatic program generation part 13 for completing the program sentence required for relational data base access by

applying the SQL sentence generated by the automatic SQL sentence generation part 12 to the prepared routine sentence and automatically generating a program (post conversion program 3) for accessing the relational data base by SQL.

12/5/3 (Item 3 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2002 JPO & JAPIO. All rts. reserv.

05009596 \*\*Image available\*\*  
PROCESS CONTROL DESIGN DEVELOPMENT SUPPORT SYSTEM

PUB. NO.: 07-302196 [JP 7302196 A]  
PUBLISHED: November 14, 1995 (19951114)  
INVENTOR(s): SHIRAISHI YOSHIKAZU  
AOYAMA SHOICHI  
APPLICANT(s): SHIRAISHI YOSHIKAZU [000000] (An Individual), JP (Japan)  
APPL. NO.: 06-113855 [JP 94113855]  
FILED: April 28, 1994 (19940428)  
INTL CLASS: [6] G06F-009/06 ; G06F-009/06 ; G05B-019/05; G06F-011/28  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
22.3 (MACHINERY -- Control & Regulation)

#### ABSTRACT

PURPOSE: To reduce a program generating period and the manufacture cost by generating automatically a detailed design document for process control and a program.

CONSTITUTION: The system is provided with a database 1 defining and storing a graph and symbol registration required for generating a detailed design document and program automatic generation, function data struct **definition** and program automatic generation code as input information and an auxiliary storage device 7 storing a program executing each sub system such as **generation** of a detailed design document, program **automatic generation** and design **database** management registered in the **database** 1, a CPU 13 executing the detailed design document, program automatic generation by using **data base** information and **function** modules registered in the **database** 1 and providing an output of the result, a CRT 14 displaying function module information, detailed design document and automatic generating program, and an output device 22 outputting the generated function module, the detailed design document and the automatic generation program.

12/5/4 (Item 4 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2002 JPO & JAPIO. All rts. reserv.

04780441 \*\*Image available\*\*  
KNOWLEDGE CONVERTER

PUB. NO.: 07-073041 [JP 7073041 A]  
PUBLISHED: March 17, 1995 (19950317)  
INVENTOR(s): SHIMADA SHIGEO  
KUMAMOTO MUTSUMI  
IIDA TOSHIYUKI  
APPLICANT(s): NIPPON TELEGR & TELEPH CORP <NTT> [000422] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 05-220265 [JP 93220265]  
FILED: September 03, 1993 (19930903)  
INTL CLASS: [6] G06F-009/44 ; G06F-009/44 ; G06F-017/30  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
45.4 (INFORMATION PROCESSING -- Computer Applications)

#### ABSTRACT

PURPOSE: To exchange data in the case of data having the similar data constitution by taking the correspondence through commonsense concept

information related to quantity to automatically generate a frame and a rule compensating for the difference in expression between data and problem resolution knowledge.

CONSTITUTION: A knowledge conversion part 9 for expert system converts original problem resolution knowledge based on correspondence **function** between classes and **tables** as the result of a required knowledge examination- part 8. That is, an additional slot is added to the class of a problem resolution knowledge 6, and, if an item of a data base corresponding to the slot of the knowledge 6 exists, a rule which substitutes the value of the item of the data base for this slot value is generated. If the item of the data base corresponding to the slot of the knowledge 6 doesn't exist but a calculation formula corresponding to it exists, a rule of the calculation formula is generated. Thus, a change knowledge 10 as commonsense rules and class **definition** which can cope with the **data base** is **automatically generated**, and **rule** of this knowledge and the rule of the original knowledge are joined into a new problem resolution knowledge for expert system.

12/5/5 (Item 5 from file: 347)  
DIALOG(R)File 347:JAPIO  
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04265958 \*\*Image available\*\*  
AUTOMATIC DATA GENERATION SYSTEM

PUB. NO.: 05-257658 [JP 5257658 A]  
PUBLISHED: October 08, 1993 (19931008)  
INVENTOR(s): IIMURA KAZUSHIGE  
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 03-133628 [JP 91133628]  
FILED: May 09, 1991 (19910509)  
INTL CLASS: [5] G06F-009/06  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units)  
JOURNAL: Section: P, Section No. 1674, Vol. 18, No. 21, Pg. 154,  
January 13, 1994 (19940113)

#### ABSTRACT

PURPOSE: To automatically generate a data definition program from data specifications defiled in a tabular form.

CONSTITUTION: The input of the automatic data generation system 1 is the data specification 2 and the output is the data **definition** program 3. Then, the **automatic data generation** system 1 consists of a relational **data base** system 11, a data **definition** program generating function 12, a data extraction indication 13, a data conversion rule 14, and extraction data 15, and the relational data base 11 consists of a data operating function 111, a data extracting **function** 112, and a **data base** 113.

12/5/6 (Item 6 from file: 347)  
DIALOG(R)File 347:JAPIO  
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03412946 \*\*Image available\*\*  
DATA - BASE OPERATION METHOD

PUB. NO.: 03-075846 [JP 3075846 A]  
PUBLISHED: March 29, 1991 (19910329)  
INVENTOR(s): TAKADATE KIMITO  
SHINDO YOSHIMITSU  
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP  
(Japan)  
HITACHI KEIYO ENG CO LTD [485526] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 01-212763 [JP 89212763]  
FILED: August 17, 1989 (19890817)  
INTL CLASS: [5] G06F-012/00 ; G06F-009/06  
JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units); 45.1  
(INFORMATION PROCESSING -- Arithmetic Sequence Units)  
JOURNAL: Section: P, Section No. 1217, Vol. 15, No. 242, Pg. 142, June  
21, 1991 (19910621)

#### ABSTRACT

PURPOSE: To shorten the **generation** time of a **definition** sentence by **automatically generating a schema definition** sentence and a **table definition** sentence from a specification in which the structure of a data base that a user generate is defined.

CONSTITUTION: The user generates the specification in which the **relation** between **tables** in the **data base** 7 and the item of the **tables** are defined by interaction. An **automatic generation** means for **data base structure definition** sentence 4 reads e generated specification, and changes the name of the specification to the name of **schema** so as to generate the **schema definition** sentence. The attribute of the item of the table defined in the specification is retrieved from a data dictionary storage means 3 and the **table definition** sentence is **automatically generated**. Thus, trouble at the time of generating the **definition** sentence can be saved.

12/5/7 (Item 7 from file: 347)  
DIALOG(R) File 347:JAPIO  
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02953536 \*\*Image available\*\*  
DEVELOPMENT BACK-UP DEVICE FOR CONTROL PROGRAM

PUB. NO.: 01-251136 [JP 1251136 A]  
PUBLISHED: October 06, 1989 (19891006)  
INVENTOR(s): TAKADA MASAYUKI  
UENO TAKASHI  
ANDO TOSHIYUKI  
SUMIZAWA TSUGUO  
APPLICANT(s): NISSAN MOTOR CO LTD [000399] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 63-078418 [JP 8878418]  
FILED: March 31, 1988 (19880331)  
INTL CLASS: [4] G06F-009/06 ; G06F-009/44  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units)  
JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers & Microprocessors)  
JOURNAL: Section: P, Section No. 983, Vol. 13, No. 587, Pg. 165,  
December 25, 1989 (19891225)

#### ABSTRACT

PURPOSE: To realize the automatic production of a control program which is converted into an internal unit by writing the external signal value unit and the internal unit into an input/output definition **table** by storing previously the **relation** between the unit of the input/output signal and the internal unit of computer control logic.

CONSTITUTION: An input/output definition table production means (a) produces an input/output definition table containing an entry **column** for the **relation** between the unit of the input/output signal and the internal unit of the control logic. A conversion formula memory means (b) stores a conversion formula between the unit of the input/output signal and the control logic internal unit. An entry column writing means (d) writes both units into the corresponding entry column of the input/output **definition** table displayed by an input/output **definition** table display means (c) and completes an input/output **definition** table. An **automatic** control program **production** means (e) **produces automatically** a control program based on the entry column data of the completed input/output **definition**

table and the stored conversion formula.

12/5/8 (Item 8 from file: 347)

DIALOG(R) File 347:JAPIO

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02525550 \*\*Image available\*\*

UP-LOADING SYSTEM FOR TERMINAL ATTRIBUTE DATA

PUB. NO.: 63-142450 [JP 63142450 A]

PUBLISHED: June 14, 1988 (19880614)

INVENTOR(s): UOZUMI KOICHI  
YASUJIMA SHINICHI

APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP  
(Japan)

APPL. NO.: 61-290766 [JP 86290766]

FILED: December 04, 1986 (19861204)

INTL CLASS: [4] G06F-013/00 ; H04L-013/00

JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units); 44.3  
(COMMUNICATION -- Telegraphy)

JOURNAL: Section: P, Section No. 776, Vol. 12, No. 401, Pg. 162,  
October 25, 1988 (19881025)

#### ABSTRACT

PURPOSE: To improve reliability to immediately cope with the change or the like of terminal equipments by automatically gathering attribute data of the terminal equipments, which a host computer requires, to complete terminal definition at the time of configuring a system.

CONSTITUTION: When terminal equipments 5-7 are powered on, **function table generating** means 8-10 **automatically generate function tables** indicating **functions** of respective terminal equipments and send these **function tables** by the indication of a host computer 1 or a controller 3. A terminal **definition table generating** means 2 of the host computer 2 gathers **function tables** directly from terminal equipments or through the controller 3 to generate **function tables** of terminal equipments through a terminal definition table gathering means which collects terminal attribute data of all terminal equipments.

12/5/9 (Item 9 from file: 347)

DIALOG(R) File 347:JAPIO

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02328568 \*\*Image available\*\*

SYSTEM GENERATION SYSTEM FOR REAL-TIME ON-LINE PROGRAM

PUB. NO.: 62-245468 [JP 62245468 A]

PUBLISHED: October 26, 1987 (19871026)

INVENTOR(s): IIZUKA KOICHI

APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP  
(Japan)

APPL. NO.: 61-090707 [JP 8690707]

FILED: April 18, 1986 (19860418)

INTL CLASS: [4] G06F-015/00 ; G06F-009/06

JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications); 45.1  
(INFORMATION PROCESSING -- Arithmetic Sequence Units)

JOURNAL: Section: P, Section No. 689, Vol. 12, No. 119, Pg. 70, April  
14, 1988 (19880414)

#### ABSTRACT

PURPOSE: To enable system generation without stopping on-line service by adding, changing, and deleting dynamically transaction definition and terminal definition during the execution of a real-time on-line program.

CONSTITUTION: A time-sharing system performs addition, alteration, and deletion related to the transaction definition and terminal definition in a transaction definition file 8-1 and a terminal definition file 8-2 on a



conversational basis. When a command for operating a **table** generating **function** is inputted, the new start of all transactions is stopped and a transaction definition table file 9-1 and a terminal input **definition** table file 9-2 are inputted after all transactions being executed are finished; and a transaction **definition** table 6 and a terminal **definition** **table** 7 in the **real - time** on-line program are **generated** and the transactions are restarted.

12/5/10 (Item 1 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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013595039 \*\*Image available\*\*  
WPI Acc No: 2001-079246/200109  
XRPX Acc No: N01-060289

Generating a medical database for litigation, involves the automatic  
referencing some terms in specific medical information to definitions  
or examples of such terms in the general medical database

Patent Assignee: BEASLEY S M (BEAS-I); PISSANOS P L (PISS-I)

Inventor: BEASLEY S M; PISSANOS P L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6128620	A	20001003	US 99241386	A	19990202	200109 B

Priority Applications (No Type Date): US 99241386 A 19990202

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6128620	A		25	G06F-017/30	

Abstract (Basic): US 6128620 A

NOVELTY - A medical database has information, drug reference look-up and drug information sections supplied, of which information in one section of the database may be selectively pasted into another section of the **database**. Specific medical information **relative** to a given litigation is then stored into a storage medium by selecting templates corresponding to specific medical records, forms or situations.

DETAILED DESCRIPTION - Upon the entry of specific medical information, a definition or example is displayed on the general medical database. At least some terms in the specific medical information are automatically referenced to definitions or examples of such terms in the general medical database. As a result, selecting one of the referenced terms displays the desired information.

USE - Generating a medical database for litigation.

ADVANTAGE - Provides a medical database with highly-sophisticated cross-referencing capability in which accessing an entry in one portion of the database provides easy access to an entry in another portion of the database. Less-skilled individuals can enter raw information easily so that more skilled individuals can process the information afterwards.

DESCRIPTION OF DRAWING(S) - The figure shows the simplified flowchart illustrating the method by which the medical database is generated.

pp; 25 DwgNo 1/15

Title Terms: GENERATE; MEDICAL; DATABASE; AUTOMATIC; REFERENCE; TERM;  
SPECIFIC; MEDICAL; INFORMATION; DEFINE; EXAMPLE; TERM; GENERAL; MEDICAL;  
DATABASE

Derwent Class: S05; T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

12/5/11 (Item 2 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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013500025 \*\*Image available\*\*

WPI Acc No: 2000-671966/200065

Related WPI Acc No: 1999-493717

XRPX Acc No: N00-498133

Database operation command executing method in computer, involves storing set of multidimensional data block information into relational database containing fact and related dimension tables

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: MALLOY W E; MOORE S E; ROBINSON G; TOMLYN C R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6122636	A	20000919	US 97885417	A	19970630	200065 B
			US 99311522	A	19990513	

Priority Applications (No Type Date): US 97885417 A 19970630; US 99311522 A 19990513

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6122636 A 13 G06F-017/30 Cont of application US 97885417

Abstract (Basic): US 6122636 A

NOVELTY - The resulting block data are stored, in tabular form, into a relational database which contains a fact **table** and the **related** dimension **tables**. One of the dimension tables serves as the anchor table which does not intersect the fact table with a common column.

DETAILED DESCRIPTION - The method involves forming a multidimensional database having a set of data blocks and identifiers comprising selected multidimensional data for identifying particular data blocks. The set of identifiers provides an ordering of the data blocks using multidimensional member identifiers and holds usage and age information about the blocks. An INDEPENDENT CLAIM is also included for a **database operation** command executing apparatus.

USE - For computer.

ADVANTAGE - Provides a relational database implementation of a multidimensional database using a relational schema, thus ensuring easy mapping of data between the multidimensional database and the relational database. Provides simplified application design, robust calculation capabilities, and flexible data access coupled with scalability of user access. Delivers consistent, fast response measured in seconds regardless of **database** size. **Automatically creates** and manages **tables** and indices within a star **schema** in the relational database, while populating star **schema** with computed data. Designed to support multi-user and read and write access that enables operational applications e.g. budgeting, planning, forecasting, modeling.

DESCRIPTION OF DRAWING(S) - The figure shows the diagram illustrating the structure for storing multidimensional data in a relational database structure.

pp; 13 DwgNo 4/5

Title Terms: DATABASE; OPERATE; COMMAND; EXECUTE; METHOD; COMPUTER; STORAGE ; SET; MULTIDIMENSIONAL; DATA; BLOCK; INFORMATION; RELATED; DATABASE; CONTAIN; FACT; RELATED; DIMENSION; TABLE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

12/5/12 (Item 3 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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013310998 \*\*Image available\*\*

WPI Acc No: 2000-482935/200042

XRAM Acc No: C00-145391

XRPX Acc No: N00-359013

System for experimentally determining the three dimensional structures of a protein uses a database of structural and sequence information

Patent Assignee: UNIV COLUMBIA NEW YORK (UYCO ); HENDRICKSON W A (HEND-I);  
HONIG B (HONI-I)

Inventor: HENDRICKSON W A; HONIG B

Number of Countries: 090 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200043776	A1	20000727	WO 2000US1600	A	20000121	200042 B
AU 200033484	A	20000807	AU 200033484	A	20000121	200055
EP 1149288	A1	20011031	EP 2000911615	A	20000121	200172
			WO 2000US1600	A	20000121	
US 20020022250	A1	20020221	US 99235986	A	19990122	200221
			WO 2000US1600	A	20000121	
			US 2001911100	A	20010720	
BR 200007638	A	20020409	BR 20007638	A	20000121	200232
			WO 2000US1600	A	20000121	
KR 2001108116	A	20011207	KR 2001709184	A	20010720	200236
US 20020107643	A1	20020808	US 99235986	A	19990122	200254

Priority Applications (No Type Date): US 99235986 A 19990122; US 2001911100  
A 20010720

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200043776	A1	E	46	G01N-033/48	
Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW					
AU 200033484	A			G01N-033/48	Based on patent WO 200043776
EP 1149288	A1	E		G01N-033/48	Based on patent WO 200043776
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
US 20020022250	A1			C12P-021/02	CIP of application US 99235986 Cont of application WO 2000US1600
BR 200007638	A			G01N-033/48	Based on patent WO 200043776
KR 2001108116	A			G06F-017/30	
US 20020107643	A1			G06F-019/00	

Abstract (Basic): WO 200043776 A1

NOVELTY - A system for experimentally determining three-dimensional atomic structures associated with a corresponding protein comprises a database of sequence information and known structural information, bioinformatics tool, protein synthesis device, protein processing device, crystallization device, X-ray crystallography device, structure extraction device and a homology building tool.

DETAILED DESCRIPTION - System for experimentally determining three-dimensional atomic structures associated with a corresponding protein comprising:

(a) a database (1a) of sequence information and known structural information organized systematically for proteins;

(b) at least one bioinformatics tool (2) using the structural, sequence and functional information stored in the database to cluster the proteins into families, where each member of the family has corresponding homologous sequences;

(c) protein synthesis device (3) for synthesizing in parallel for each family determined by the at least one bioinformatics tool several target proteins which are representative members of the family using information stored in the database corresponding to the target proteins, the synthesis device has a screening device (4) to screen the synthesis products and determine those which are effective as proteins;

(d) protein processing device (5) for preparing, purifying and characterizing each target protein which has been determined to be effective by the screening device;

(e) crystallization device (6) for crystallizing each target protein processed by the protein processing device in parallel against crystallization screens to produce specimen crystals of the target protein and test the specimen crystals for predetermined diffraction

characteristics to determine suitable crystals of the target protein;

(f) X-ray crystallography device (8) for carrying out high-throughput crystallography on the suitable specimen crystals of each target protein, which has devices for measuring and analyzing the diffraction data, for building an atomic model of the target protein according to the diffraction data, for refining the model of the target protein against the diffraction data and for storing the refined model in the database;

(g) structure extraction device (9) for analyzing the refined model of the target protein using sequence information corresponding to other family members and other known three dimensional structures stored in the database, for analyzing the refined model for functional motifs and surface characteristics to define active sites and macromolecular contact sites and for defining at least one class of compounds predicted to have binding potency using the active sites information corresponding to the target protein; and

(h) a homology building tool (10) for developing a homology model using the refined model of the target protein retrieved from the database.

The database is updated using the at least one bioinformatics tool and the developed homology model.

USE - The homology model developed by the homology model building tool is used in at least one of target selection, drug design and design of more appropriate constructs for experimental analysis (claimed).

The system is used for experimentally determining three dimensional atomic structures associated with a corresponding protein (claimed).

The system provides a method for analyzing the modular structures in proteins which will have both commercial and scientific value and will allow further understanding of proteins from bacteria, yeast and plants. The system can also be used for pan-genomic determination of three-dimensional macromolecular atomic structures.

The atomic models produced are useful in biotechnology, medicine and agriculture. The homology models are useful in target selection or drug design. **Linking the database** with screening data and small molecule data available in pharmaceutical and biotechnology companies will enable continuous interaction amongst experiments identifying gene sequences, protein structures and chemical libraries.

ADVANTAGE - The system provides a useful integration between structural and genomic information. Examining homology in three dimensions is more powerful than examinations using sequence-based approaches. The system allows another member of a protein family to be used in place of a protein which is a difficult target and allows parallel studies to take place which reduces the amount of time that studies will take. The database will reduce the need for in-house expertise in sequence analysis as the results of the most advanced type of analysis is contained in the database.

DESCRIPTION OF DRAWING(S) - The figure shows a representation of the system apparatus.

pp; 46 DwgNo 1/3

Title Terms: SYSTEM; EXPERIMENT; DETERMINE; THREE; DIMENSION; STRUCTURE; PROTEIN; DATABASE; STRUCTURE; SEQUENCE; INFORMATION

Derwent Class: B04; D16; S03

International Patent Class (Main): C12P-021/02; G01N-033/48; **G06F-017/30 ; G06F-019/00**

International Patent Class (Additional): C12P-021/06; G01N-015/06; G01N-033/50

File Segment: CPI; EPI

12/5/13 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012832256 \*\*Image available\*\*

WPI Acc No: 2000-004088/200001

XRPX Acc No: N00-003534

Business application software automatic generation module for main

service of enterprises - has state transition management module that controls state transition corresponding to state transition table, based on input event

Patent Assignee: FUJITSU LTD (FUIT )

Inventor: HARA H; MATSUTSUKA T; NAGAHASHI K; UEHARA S

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11282658	A	19991015	JP 9886099	A	19980331	200001 B
US 6211872	B1	20010403	US 98174592	A	19981019	200120

Priority Applications (No Type Date): JP 9886099 A 19980331

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11282658	A	25	G06F-009/06	
US 6211872	B1		G06F-003/14	

Abstract (Basic): JP 11282658 A

NOVELTY - A state transition table generation class (102) automatically generates state transition table from state transition definition table (101) which defines state transition. Based on input event, a state transition management module (103) controls state transition corresponding to state transition table.

USE - For main service of enterprises.

ADVANTAGE - Physical screen data and logic screen data are isolated thereby there is no modification of program beside server. Refers event process interface during correction of state transition definition table, thereby the adjustment with event process class and state transition definition table is done easily. DESCRIPTION OF DRAWING(S) - The figure shows the principle block diagram of business application software. (101) Definition table; (102) Generation class; (103) Management module.

Dwg.1/13

Title Terms: BUSINESS; APPLY; SOFTWARE; AUTOMATIC; GENERATE; MODULE; MAIN; SERVICE; STATE; TRANSITION; MANAGEMENT; MODULE; CONTROL; STATE;

TRANSITION; CORRESPOND; STATE; TRANSITION; TABLE; BASED; INPUT; EVENT

Derwent Class: T01

International Patent Class (Main): G06F-003/14 ; G06F-009/06

File Segment: EPI

12/5/14 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012789278 \*\*Image available\*\*

WPI Acc No: 1999-595505/199951

XRPX Acc No: N99-439783

Standard query language definition sentence forming apparatus for e.g. relative database management system - has SQL definition sentence output unit that produces SQL definition sentence based on analysis of acquired area parameter and acquired item definition data

Patent Assignee: FUJITSU LTD (FUIT )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11259345	A	19990924	JP 9856779	A	19980309	199951 B

Priority Applications (No Type Date): JP 9856779 A 19980309

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11259345	A	5	G06F-012/00	

Abstract (Basic): JP 11259345 A

NOVELTY - An SQL definition sentence output unit (24) produces an SQL definition sentence based on the analysis of the area parameter obtained by an area parameter acquiring unit (22) and the item definition data obtained by an item definition acquiring unit (23).

USE - For e.g. relative database management system.

ADVANTAGE - Ensures automatic production of definition sentence in user **table** area. Simplifies management of area parameter. Prevents error generation during management of area management **table**. Simplifies edit **operation** modification of SQL **definition** sentence. DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of an SQL definition sentence forming apparatus. (22) Area parameter acquiring unit; (23) Item definition acquiring unit; (24) SQL definition sentence output unit.

Dwg.2/4

Title Terms: STANDARD; QUERY; LANGUAGE; DEFINE; SENTENCE; FORMING; APPARATUS; RELATIVE; DATABASE; MANAGEMENT; SYSTEM; SQL; DEFINE; SENTENCE; OUTPUT; UNIT; PRODUCE; SQL; DEFINE; SENTENCE; BASED; ANALYSE; ACQUIRE; AREA; PARAMETER; ACQUIRE; ITEM; DEFINE; DATA

Derwent Class: T01

International Patent Class (Main): G06F-012/00

International Patent Class (Additional): G06F-017/30

File Segment: EPI

12/5/15 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012109848 \*\*\*Image available\*\*

WPI Acc No: 1998-526760/199845

XRPX Acc No: N98-411794

Database access program conversion system for information processor - outputs program corresponding to accessing of particular database using SQL commands output based on database definition information present in extracted program sequence

Patent Assignee: MITSUBISHI ELECTRIC CORP (MITQ )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10232803	A	19980902	JP 9735822	A	19970220	199845 B

Priority Applications (No Type Date): JP 9735822 A 19970220

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 10232803 A 20 G06F-012/00

Abstract (Basic): JP 10232803 A

The system includes an instruction extraction unit (11) which extracts program sequence corresponding to access of an ISAM database, from a conversion origin program (2). An automatic command generator (12) outputs SQL command relating to particular database, based on database definition information present in the extracted program sequence.

The database definition information represents the fixed format and the tables related with that particular database. An automatic program generator (13) outputs program corresponding to accessing of particular database using output SQL commands.

ADVANTAGE - Simplifies performing reliable program conversion. Widens program conversion range.

Dwg.1/25

Title Terms: DATABASE; ACCESS; PROGRAM; CONVERT; SYSTEM; INFORMATION; PROCESSOR; OUTPUT; PROGRAM; CORRESPOND; ACCESS; DATABASE; SQL; COMMAND; OUTPUT; BASED; DATABASE; DEFINE; INFORMATION; PRESENT; EXTRACT; PROGRAM; SEQUENCE

Index Terms/Additional Words: INDEXED; SEQUENTIAL; ACCESS; METHOD; SELECTED ; QUERY; LANGUAGE

Derwent Class: T01

International Patent Class (Main): G06F-012/00

International Patent Class (Additional): G06F-009/45

File Segment: EPI

12/5/16 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX  
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011074642 \*\*Image available\*\*  
WPI Acc No: 1997-052566/199705  
XRPX Acc No: N97-043059

Computer system for creating semantic object model from existing  
relational database schema - analyses relationship information stored in  
catalogue to create object link attributes that define relationships  
between two or more semantic objects

Patent Assignee: WALL DATA INC (WALL-N)

Inventor: KROENKE D; KROENKE D M

Number of Countries: 072 Number of Patents: 014

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9641282	A1	19961219	WO 96US8563	A	19960603	199705	B
AU 9660346	A	19961230	AU 9660346	A	19960603	199716	
NO 9705722	A	19980205	WO 96US8563	A	19960603	199816	
			NO 975722	A	19971205		
EP 834141	A1	19980408	EP 96917975	A	19960603	199818	
			WO 96US8563	A	19960603		
JP 10509264	W	19980908	WO 96US8563	A	19960603	199846	
			JP 97501119	A	19960603		
US 5819086	A	19981006	US 95478377	A	19950607	199847	
EP 834141	B1	19990506	EP 96917975	A	19960603	199922	
			WO 96US8563	A	19960603		
DE 69602364	E	19990610	DE 602364	A	19960603	199929	
			EP 96917975	A	19960603		
			WO 96US8563	A	19960603		
AU 706724	B	19990624	AU 9660346	A	19960603	199936	
BR 9608549	A	19990706	BR 968549	A	19960603	199938	
			WO 96US8563	A	19960603		
ES 2132922	T3	19990816	EP 96917975	A	19960603	199939	
MX 9709864	A1	19980801	MX 979864	A	19971208	200014	
KR 99022546	A	19990325	WO 96US8563	A	19960603	200023	
			KR 97709027	A	19971206		
CN 1190478	A	19980812	CN 96195384	A	19960603	200273	

Priority Applications (No Type Date): US 95478377 A 19950607

Cited Patents: GB 2253500; WO 9503586; WO 9512172

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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WO 9641282	A1	E	60 G06F-017/30	
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Designated States (National): AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE  
DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK  
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GR IE IT KE  
LS LU MC MW NL OA PT SD SE SZ UG

AU 9660346	A			Based on patent WO 9641282
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EP 834141	A1	E		Based on patent WO 9641282
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Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI  
LT LU LV MC NL PT SE SI

JP 10509264	W	85	G06F-012/00	Based on patent WO 9641282
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EP 834141	B1	E		Based on patent WO 9641282
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Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI  
LT LU LV MC NL PT SE SI

DE 69602364	E			Based on patent EP 834141
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Based on patent WO 9641282

AU 706724	B			Previous Publ. patent AU 9660346
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Based on patent WO 9641282

BR 9608549	A			Based on patent WO 9641282
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ES 2132922	T3			Based on patent EP 834141
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KR 99022546	A		G06F-017/30	Based on patent WO 9641282
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CN 1190478	A		G06F-017/30	
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Abstract (Basic): WO 9641282 A

The system includes a memory with a database catalog stored in it.  
The catalog defines several relational database tables included within

the data base schema and at least one column included within each of the relational database tables. A display displays a semantic object model to a user. A central processing unit, coupled to the memory and to the display, includes a computer program that causes the central processing unit to perform various functions.

The **functions** are as follows: the **data base catalog** is analyzed to determine each relational database table defined in the existing relational database schema. Next a semantic object is created within the semantic object model that corresponds to at least one of the relational database tables defined in the relational database schema. Each column defined in the relational database schema is analyzed for the relational database table corresponding to the semantic object created.

**ADVANTAGE - Automatic creation** of semantic object from existing relational **database schema**. Model allows user to easily update or modify database **schema** by manipulating components of semantic object model. This allows users to manipulate relational database without need to understand database management system or query language normally used to edit schema.

Dwg. 4A/12

Title Terms: COMPUTER; SYSTEM; OBJECT; MODEL; EXIST; RELATED; DATABASE; ANALYSE; RELATED; INFORMATION; STORAGE; CATALOGUE; OBJECT; LINK; ATTRIBUTE; DEFINE; RELATED; TWO; MORE; OBJECT  
Derwent Class: T01  
International Patent Class (Main): G06F-012/00 ; G06F-017/30  
File Segment: EPI

12/5/17 (Item 8 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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010836639 \*\*Image available\*\*  
WPI Acc No: 1996-333592/199633  
XRPX Acc No: N96-281182

**Database definition generating computer program for producing indirect facts from entity-relationship - creating new database definition to store and retrieve identified indirect facts in response to operator inputs defining base entity, target fact, and information linking base entity to indirect fact**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )  
Inventor: CATTELL K T; CROMER W R; LIN S; NEUCHTERLEIN B E; POTOK T E  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5535325	A	19960709	US 94358273	A	19941219	199633 B

Priority Applications (No Type Date): US 94358273 A 19941219

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5535325	A	13	G06F-015/00	

Abstract (Basic): US 5535325 A

The database **definition** generating program executes a process on a computer with database storage, a display and an input device. The program automatically **generates** and displays a **database** definitional plan for indirect facts **associated** with the **database** entity data. The process involves generating a graphical placement holder in a database definitional diagram for a user identified target indirect fact regarding a user identified target entity in an entity-relationship (ER) model of the user's business environment.

Subsequent graphical placeholder blocks are generated and displayed for an indirect fact derivation argument and an associative entity type relationship link. Graphical paths are generated and displayed connecting the first graphical placeholder block to the base entity and the other blocks to the first block. Another graphical path connects the block for the associative entity link to the first relationship link representational block in the in a transverse diagram of the database



definition. Finally, a graphical path connects the block for the indirect fact derivation argument to the user identified target entity.

ADVANTAGE - Allows adequate model of real-world business situations to be **generated automatically** from **database definition generated** from existing ER model.

Dwg. 4/6

Title Terms: DATABASE; DEFINE; GENERATE; COMPUTER; PROGRAM; PRODUCE;  
INDIRECT; FACT; ENTITY; RELATED; NEW; DATABASE; DEFINE; STORAGE;  
RETRIEVAL; IDENTIFY; INDIRECT; FACT; RESPOND; OPERATE; INPUT; DEFINE;  
BASE; ENTITY; TARGET; FACT; INFORMATION; LINK; BASE; ENTITY; INDIRECT;  
FACT

Index Terms/Additional Words: ER; SOFTWARE; BUSINESS; MODEL

Derwent Class: T01

International Patent Class (Main): G06F-015/00

International Patent Class (Additional): G06F-007/00 ; G06F-015/40

File Segment: EPI

13/5/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06665099 \*\*Image available\*\*  
DEVICE AND METHOD FOR CONSTRUCTION OF DATA BASE

PUB. NO.: 2000-250923 [JP 2000250923 A]  
PUBLISHED: September 14, 2000 (20000914)  
INVENTOR(s): MIYAKE KYOKO  
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD  
APPL. NO.: 11-050011 [JP 9950011]  
FILED: February 26, 1999 (19990226)  
INTL CLASS: G06F-017/30 ; G06T-001/00

ABSTRACT

PROBLEM TO BE SOLVED: To automatically extract the item **definitions** from plural areas which are enclosed by a **ruled** line in a document and to **automatically construct a data base**.

SOLUTION: This device/method includes a document analysis part 11 which extracts a character string area that is enclosed by a **ruled** line in a document, a character string area accumulation means 121 which accumulates the character strings of character string areas of every document in each of areas having the common positions of these character strings, a common character string information storage means 122 which extracts the common character string information from plural character strings accumulated in each of common areas which are accumulated by the means 121 and stores these extracted character string information and a non-common character string acquisition means 131 which acquires the non-common character strings other than the common character strings. Then the character strings stored in the means 122 are set as the items of a data base and also the data acquired by the means 131 are successively accumulated as the data corresponding to the data base items.

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13/5/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06354810 \*\*Image available\*\*  
METHOD AND DEVICE FOR GENERATING INFORMATION MANAGEMENT PROGRAM

PUB. NO.: 11-296417 [JP 11296417 A]  
PUBLISHED: October 29, 1999 (19991029)  
INVENTOR(s): SANBE RYOTA  
HIRAI CHIAKI  
APPLICANT(s): HITACHI LTD  
APPL. NO.: 10-100857 [JP 98100857]  
FILED: April 13, 1998 (19980413)  
INTL CLASS: G06F-012/00 ; G06F-009/06

ABSTRACT

PROBLEM TO BE SOLVED: To make compatibility between items sure by decreasing an item **definition** load on a user.

SOLUTION: A user is made to select a system output with output item specifications **definition** information as a guide (101), and a **database** item is **automatically generated** on the basis of the system output item (102). Then, a system input item is **automatically generated** on the basis of **database** item (104), the user is made to select a system input item (108) with input item specifications **definition** information as a guide, compatibility between items is verified (109) and contradiction is **corrected** (110), an input program is generated (120) based on the input item specifications **definition** information, the system input item and program parts, and an output program is generated (121) on the basis of the

output item specifications **definition** information, the system output item and the program parts. In this way, it is possible to decrease a load on the user who defines items. Also it is possible to make the compatibility between the items sure.

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13/5/3 (Item 3 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06271191 \*\*Image available\*\*  
PROGRAM GENERATION SUPPORT SYSTEM

PUB. NO.: 11-212779 [JP 11212779 A]  
PUBLISHED: August 06, 1999 (19990806)  
INVENTOR(s): HIDA HIROYUKI  
HAMADA YOSHITOSHI  
APPLICANT(s): HITACHI LTD  
HITACHI INF & CONTROL SYST LTD  
APPL. NO.: 10-300064 [JP 98300064]  
FILED: October 21, 1998 (19981021)  
PRIORITY: 09297179 [JP 979297179], JP (Japan), October 29, 1997  
(19971029)  
INTL CLASS: G06F-009/06

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a program **automatic generation** support system that uses a **table** which defines and describes function specifications as it is and outputs a program source on the basis of the function specifications inputted as a table as it is.

SOLUTION: A parameter of a program for which a framework is provided in advance is decided on the basis of given data and a feasible program is generated. This system is equipped with a data **definition** means 11 for defining the given data as a table format expression in accordance with a predetermined **definition rule**, a data analysis means 21 for reading the data according to the **definition rule** from the data defined as the table format expression, classifying the data in accordance with a predetermined analysis **rule** and generating a group of classified data, and a program generation means 22 for deciding a parameter by using the group of the classified data in accordance with the framework of the prepared program and for processing to generate the feasible program.

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13/5/4 (Item 4 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05205659 \*\*Image available\*\*  
DEVICE FOR AUTOMATICALLY GENERATING SOFTWARE PREPARING ENVIRONMENT

PUB. NO.: 08-161159 [JP 8161159 A]  
PUBLISHED: June 21, 1996 (19960621)  
INVENTOR(s): YONEKURA HIDEHARU  
APPLICANT(s): NIPPON STEEL CORP [000665] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 06-298109 [JP 94298109]  
FILED: December 01, 1994 (19941201)  
INTL CLASS: [6] G06F-009/06  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units)

#### ABSTRACT

PURPOSE: To easily execute work for generating software preparing environment information by automatically generating hierarchical structure in a storage device in accordance with generated relational information.

CONSTITUTION: The hierarchical structure of a project is defined by a document (a function hierarchical structure **table**). The original information of the document is **automatically generated** by a design document original DB 45 for extracting a necessary original from the original group of plural design documents which are previously stored and adding prescribed initial information to the extracted original in accordance with an original generating **rule**. The document can be prepared by allowing an operator to describe **definition** information necessary for respective items on the original. The information of an entry column corresponding to specific positional relation is extracted from the document information based upon registering **rule** information and the information of respective positions in the hierarchical structure, the positions of another hierarchy and relational information indicating master-slave relation between both the information are generated. Since the relational information indicates the constitution of the hierarchical structure, the hierarchical structure can be automatically generated in a design document storing DB (SB) based upon the relational information.

13/5/5 (Item 5 from file: 347)

DIALOG(R) File 347:JAPIO

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01417083 \*\*Image available\*\*  
TABULATING METHOD

PUB. NO.: 59-128683 [JP 59128683 A]

PUBLISHED: July 24, 1984 (19840724)

INVENTOR(s): UEHARA TETSUZO

TAKATORI MITSUKO

MIKAMI HIDEKO

FUJIYAMA MASAO

SUZUKI KAZUHARU

APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP  
(Japan)

APPL. NO.: 58-002219 [JP 832219]

FILED: January 12, 1983 (19830112)

INTL CLASS: [3] G06K-015/00; **G06F-015/20**

JAPIO CLASS: 45.3 (INFORMATION PROCESSING -- Input Output Units); 45.4  
(INFORMATION PROCESSING -- Computer Applications)

JAPIO KEYWORD: R139 (INFORMATION PROCESSING -- Word Processors)

JOURNAL: Section: P, Section No. 317, Vol. 08, No. 259, Pg. 32,  
November 28, 1984 (19841128)

#### ABSTRACT

PURPOSE: To form a high tabulating function by a word processor or the like by setting up the line arrangement of a text in a **table automatically**, **setting up a ruled** line output position corresponding to the arrangement automatically and **correcting** the format and contents of the formed table simply.

CONSTITUTION: Data are inputted from a terminal keyboard 1 and a tabulation display output is shown on a display device 13. The tabulation is controlled by an input controlling part 2, a field **definition** controlling part 7, a text arrangement controlling part 9, and an output controlling part 12 under control by a whole control part 4. A text inputted by said procedure is arranged in each field until field border specification appears, and a text character string exceeding field length is arranged by folding it in each field. End/continuation border specification is stored in each field and a lateral **ruled** line by each field border specification is displayed respectively.

13/5/6 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014573791 \*\*Image available\*\*

WPI Acc No: 2002-394495/200242

XRPX Acc No: N02-309288

**Integrated ontology development environment has management system containing formal representations of ontologies for target subject, parent and ancestral domains**

Patent Assignee: ONTOLOGY WORKS INC (ONTO-N)

Inventor: ANDERSON W A; BRINKLEY P M; ENGLE J F; PETERSON B J

Number of Countries: 096 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200231680	A1	20020418	WO 2001US28296	A	20010912	200242 B
AU 200188986	A	20020422	AU 200188986	A	20010912	200254

Priority Applications (No Type Date): US 2000684884 A 20001006

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200231680 A1 E 75 G06F-017/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200188986 A G06F-017/00 Based on patent WO 200231680

Abstract (Basic): WO 200231680 A1

NOVELTY - Environment is computerized and is for generating databases, **definitions**, **rule** sets etc. and generating application program interface (API) specifications. An ontology management system contains a formal representation of ontologies for the target subject domain and corresponding parent or ancestral domains, output is produced by a database generator (DBG) and a strongly typed API generator (STAG) generates an object-oriented API for application programming. The DBG has an alternate temporal transformation that allows for stratified and non-stratified **rules**

DETAILED DESCRIPTION - There is an INDEPENDENT CLAIM for a method of generating a database and the corresponding application program interface from an ontology.

USE - Method is for semi- **automatically generating** deductive **databases** especially for biological information systems.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the database generation system.

pp; 75 DwgNo 1/20

Title Terms: INTEGRATE; DEVELOP; ENVIRONMENT; MANAGEMENT; SYSTEM; CONTAIN; FORMALDEHYDE; REPRESENT; TARGET; SUBJECT; PARENT; DOMAIN

Derwent Class: T01

International Patent Class (Main): G06F-017/00

File Segment: EPI

13/5/7 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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011885478 \*\*Image available\*\*

WPI Acc No: 1998-302388/199827

Related WPI Acc No: 2000-355042; 2000-395491

XRPX Acc No: N98-236964

**Automatic modification method of information transmission route e.g. for computer network - involves modifying information transmission route based on time elapsed after information is actually transmitted to user, such that information processing is done within limitation time**

Patent Assignee: HITACHI LTD (HITA )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10105622	A	19980424	JP 96256038	A	19960927	199827 B

Priority Applications (No Type Date): JP 96256038 A 19960927

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
JP 10105622 A 11 G06F-019/00

Abstract (Basic): JP 10105622 A

The method involves supporting predefined working process by sequentially transmitting information among multiple users. A condition **definition** table block includes four tables. The first table is service flow **definition** table (101) which defines information transmission route between users. The time within which processing is to be done by user which is limitation processing time is defined by limitation processing time table (102). The third table is automatic delivery tip table (103) which defines contents of automatic delivery tip and handles information automatically when processing is not done within limitation time.

The fourth table which is **automatic correction generation table** (104) **generates automatic correction** of data provided. The time elapsed from the time when information is sent to user is monitored by a control process block. The automatic modification of transmission route is done so that information processing is done within the limitation time. The block which provides this alternative route is stored in a file (140).

ADVANTAGE - Attains easy flexibility to variation. Publishes alarm of process recommendation to user. Performs service process efficiently. Improves service flow simultaneously.

Dwg.1/11

Title Terms: AUTOMATIC; MODIFIED; METHOD; INFORMATION; TRANSMISSION; ROUTE; COMPUTER; NETWORK; MODIFIED; INFORMATION; TRANSMISSION; ROUTE; BASED; TIME; ELAPSED; AFTER; INFORMATION; TRANSMIT; USER; INFORMATION; PROCESS; LIMIT; TIME

Derwent Class: T01; W01

International Patent Class (Main): G06F-019/00

International Patent Class (Additional): G06F-013/00 ; H04L-012/18; H04L-029/08

File Segment: EPI

13/5/8 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011880402 \*\*Image available\*\*

WPI Acc No: 1998-297312/199826

Related WPI Acc No: 1996-476666; 1998-609850

XRPX Acc No: N98-232656

Database interface e.g. GUI for application development in client or server environment - includes multiple visual presentation attributes that determines display manner of data window for display of data elements of database table.

Patent Assignee: POWERSOFT CORP (POWE-N)

Inventor: SHEFFIELD K A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5752018	A	19980512	US 91747858	A	19910820	199826 B
			US 95393049	A	19950223	
			US 96652731	A	19960522	

Priority Applications (No Type Date): US 91747858 A 19910820; US 95393049 A 19950223; US 96652731 A 19960522

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5752018	A		39	G06F-017/30	Cont of application US 91747858 Cont of application US 95393049 Cont of patent US 5566330

Abstract (Basic): US 5752018 A

The interface includes a data window object (24) tailored to database table without access to source code. Multiple visual presentation attributes are provided which determines the display manner of the data window for display of data elements of the database table. The data **definition** attributes define both type and value validity criteria of data elements.

The data window object comprises unit for indirectly manipulating data elements by retrieving data elements from application database table into a memory buffer and presenting them in a defined display manner, receiving from a user of interface comments for altering the retrieval data elements in memory buffer and **generating database statements automatically** to apply results of indirect manipulation from data elements in memory buffer to application database table.

ADVANTAGE - Suits application **programmer** who does not have extensive knowledge of database operations or code database operations in programming languages. Enables using as modules in numerous application programs without reprogramming. Enables reuse of previously defined data windows thereby decreasing development and testing time.

Dwg.8/30

Title Terms: DATABASE; INTERFACE; APPLY; DEVELOP; CLIENT; SERVE; ENVIRONMENT; MULTIPLE; VISUAL; PRESENT; ATTRIBUTE; DETERMINE; DISPLAY; MANNER; DATA; WINDOW; DISPLAY; DATA; ELEMENT; DATABASE; TABLE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

13/5/9 (Item 4 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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011187579. \*\*Image available\*\*

WPI Acc No.: 1997-165504/199715

XRPX Acc No: N97-136253

**Data storage method for relational database using object model - using custom application for creating forms and reports based on objects in object model to store and retrieve data from relational database**

Patent Assignee: WALL DATA INC (WALL-N)

Inventor: CAI Z; GORDON M C; KAWAI K; KROENKE D M; LI J; MILLER M D; OLDS C C; STANFORD C A

Number of Countries: 072 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9707470	A1	19970227	WO 96US13284	A	19960815	199715 B
AU 9667764	A	19970312	AU 9667764	A	19960815	199727
EP 846299	A1	19980610	EP 96928204	A	19960815	199827
			WO 96US13284	A	19960815	

Priority Applications (No Type Date): US 95516446 A 19950817

Cited Patents: 1.Jnl.Ref; GB 2253500; US 5263167; WO 9503586; WO 9512172

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9707470 A1 E 230 G06F-017/30

Designated States (National): AL AM AT AU AZ BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG

AU 9667764 A G06F-017/30 Based on patent WO 9707470

EP 846299 A1 E G06F-017/30 Based on patent WO 9707470

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Abstract (Basic): WO 9707470 A

The method involves storing data in a relational database using an object model which includes a number of objects each having one or more components that define the object including relationships between models, and has been translated into a database **schema** including one

or more relational database tables that describes the relational database. An object is selected from the object model, and a form based on the selected object for storing data in the relational database is **automatically generated** according to a set of default **rules**.

The form is combined with information about the database **schema** and information about the selected object, including information regarding any relationships that exist between the selected object and other objects in the model. A user is prompted to enter data to be stored in the relational database, into the form, and the data that has been entered into the form is written to the relational database.

ADVANTAGE - **Automatically generates** forms and reports for accessing data in **database** using object modelling concepts.

Dwg.1/23

Title Terms: DATA; STORAGE; METHOD; RELATED; DATABASE; OBJECT; MODEL; CUSTOM; APPLY; FORM; REPORT; BASED; OBJECT; OBJECT; MODEL; STORAGE; RETRIEVAL; DATA; RELATED; DATABASE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

13/5/10 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011159382 \*\*Image available\*\*

WPI Acc No: 1997-137307/199713

XRPX Acc No: N97-113352

Automatic database formation appts used in processing system of office - has database formation unit, which form database table by analyzing database design information read out from memory part, converted to user database, based on voucher defined by operation terminal

Patent Assignee: NIPPON TELEGRAPH & TELEPHONE CORP (NITE ); NTT DATA

TSUSHIN KK (NITE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9016692	A	19970117	JP 95165903	A	19950630	199713 B

Priority Applications (No Type Date): JP 95165903 A 19950630

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 9016692	A	7	G06F-019/00	

*need translation  
(good)*

Abstract--(Basic): JP 9016692 A

The appts has a defining part (10) which defines the database design information including the format, and item information on each voucher, based on predefined design **rule**, which defines the configuration of a voucher. A memory part (11) stores the defined database design information for each voucher.

A database formation unit (12) forms a database table, by analyzing the database design information read out from the memory part and corresponds to the configuration of an applicable voucher. The database table is converted into an user database (13), based on the **definition** of voucher that is displayed on the screen of an operation terminal.

USE/ADVANTAGE - For application of voucher, document **production**. Enables to form **database table automatically** only by defining voucher. Eliminates necessity of DB designer or engineer for DB formation. Improves DB formation performance.

Dwg.1/9

Title Terms: AUTOMATIC; DATABASE; FORMATION; APPARATUS; PROCESS; SYSTEM; OFFICE; DATABASE; FORMATION; UNIT; FORM; DATABASE; TABLE; DATABASE; DESIGN; INFORMATION; READ; MEMORY; PART; CONVERT; USER; DATABASE; BASED; VOUCHER; DEFINE; OPERATE; TERMINAL

Index Terms/Additional Words: DATABASE

Derwent Class: T01

International Patent Class (Main): G06F-019/00

International Patent Class (Additional): G06F-017/30



File Segment: EPI

13/5/11 (Item 6 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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011013205 \*\*Image available\*\*

WPI Acc No: 1996-510155/199651

XRPX Acc No: N96-430025

Database programme automatic generator - has programme generator  
that generates data operation programme according to data operation  
command from assistance prodn. rule

Patent Assignee: FUJITSU LTD (FUIT )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8263277	A	19961011	JP 9562740	A	19950322	199651 B

Priority Applications (No Type Date): JP 9562740 A 19950322

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8263277	A	23	G06F-009/06	

Abstract (Basic): JP 8263277 A

The generator has an attribute analyser (2) that analyses the property of the data stored in a database definition (1) and converted to a data using a mould conversion rule (3). A database access template (4) produces a template that describes an access routine to a database. An assistance function prodn. rule (5) assists in generating a prodn. rule for producing a data operation command.

A programme generator (6) generates a data operation programme according to the data operation command acquired from the assistance function prodn. rule.

ADVANTAGE - Provides highly reliable and stable database which can be reused thereby optimising utilisation worth of data operation program counter automatic generator.

Dwg.1/20

Title Terms: DATABASE; PROGRAMME; AUTOMATIC; GENERATOR; PROGRAMME;  
GENERATOR; GENERATE; DATA; OPERATE; PROGRAMME; ACCORD; DATA; OPERATE;  
COMMAND; ASSIST; PRODUCE; RULE

Derwent Class: T01

International Patent Class (Main): G06F-009/06

International Patent Class (Additional): G06F-012/00 ; G06F-017/30

File Segment: EPI